FILE 'REGISTRY' E E ETHA	NTERED AT 14:25:52	ON 29 MAR 2001	
		" OR "N-PROPANOL")/C	יאי
•	ROPYL MYRISTATE/CN	OR N-PROPANOL //C	.14
	OSTERONE/CN		
L3 1 S E3			•
E CARB	OPOL/CN		
L4 93 S CARB	OPOL ?/CN		
FILE 'CAPLUS' ENT	ERED AT 14:26:58 ON	29 MAR 2001	
		PLU=ON (ETHANOL OR	"2-PROPANOL
	N-PROPANOL")/CN	•	•
		PLU=ON ISOPROPYL M	YRISTATE/CN
	11-110101111 1-0-VII		,
L3 1 SEA FI	LE=REGISTRY ABB=ON	PLU=ON TESTOSTERON	IE/CN
		PLU=ON CARBOPOL ?/	
		LU=ON L1 OR ETHANOL	
	(W) ALCOHOL OR (2 OR		
		LU=ON (2 OR N) (W) PR	ROPYL
ALCOHO		(= 000 00, 00, 00,	
		LU=ON (L5 OR L6 OR	ALCOHOL)
		SOPROPYL OR (ISO OR	
))(W)MYRISTATE)	SOLKOLID OK (150 OK	_, (, (2.1.01.1.
		LU=ON L7 AND (L3 OR	פיידפטנט
	DE=CAPIOS ABB=ON F. TOSTERONE)	DO-ON DI AND (DS ON	GIEROID.
	•	LU=ON L8 AND (L4 OR	ייטדרעבאיס
		DO=ON DO AND (D4 OR	THICKEN.
OR CAR	3OPOL)		
=> d 1-8 .bevstr			
=> d 1-8 .bevstr			
	PLUS COPYRIGHT 200	1 1.00	
ACCESSION NUMBER:	2001:131163 CAP	605	
DOCUMENT NUMBER:	134:168379		1.3
TITLE:	-	ime-specific control	
•	~	ions containing a sw	ellable.
	polymeric coating		
INVENTOR(S):		Crimella, Tiziano	
PATENT ASSIGNEE(S):	Italy		
SOURCE:	U.S., 11 pp., Co	ntin-part of U.S.	5,891,474.
	CODEN: USXXAM		
DOCUMENT TYPE:	Patent		
LANGUAGE:	English		
FAMILY ACC. NUM. COUNT			
PATENT INFORMATION:			
D1 mm/m	VIND DAME	ADDITORMINE NO F	እ አ ጥሮ
	KIND DATE	APPLICATION NO. I	ATE
	D1 20010220		10071216
US 6190692		US 1997-991814 1	19971216
US 5891474	A 19990406	US 1997-790530 1	

Shears

PRIORITY APPLN. INFO.:

US 1997-790530 19970129

The time-specific controlled-release capsule formulations comprise (a) a core contg. a liq. form of a pharmaceutically active agent to be delivered, and (b) a swellable polymeric coating layer substantially surrounding the core. The swellable polymeric coating layer delays the release of the pharmaceutically active agent from the core for a predetd. period of time dependent upon the thickness of the swellable polymeric coating layer. The swellable polymeric coating layer surrounding the core is provided by a new method which includes alternately (i) wetting the core with a binder soln., and (ii) coating the core with powd. polymeric particles a sufficient no. of times to produce a time-specific dosage formulation having the desired thickness of swellable polymeric coating layer. For example, 40 mg of verapamil HCl, 129 mg of dibasic calcium phosphate dihydrate, 20 mg of microcryst. cellulose, and 10 mg of sodium starch glycolate, were mixed thoroughly. Magnesium stearate (1 mg) is added and thoroughly mixed for another 5 min. The granular mixt. is formed into tablet cores of 6.8 mm diam., weighing 200 mg each using a rotary tablet press. The cores show a disintegration time lower than 5 min. in water, a Schleuninger hardness higher than 10 kp and a friability lower than 0.1 %. The cores are heated to 400.degree. and the coating layer is applied onto the cores in a two-step procedure, using an automatic coating pan. In the first step, the cores are wetted with a binder soln. contg. 5% Methocel E5, 10% polyvinylpyrrolidone, and 85% purified water. In the second step, the wetted cores were treated with a dry mixt. including 90% Methocel K15M, 9% talc and 1% colloidal silica. Steps 1 and 2 are repeated until a wt. gain corresponding to 50% of total tablet wt. is achieved. The coated tablets showed a dissoln. time lag in excess of 300 min., followed by a quick disintegration of the tablet.

IT 64-17-5, Ethyl alcohol, biological studies 110-27-0, Isopropyl myristate 9003-01-4, Poly(acrylic acid)

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (prepn. of time-specific controlled-release capsules comprising drug-contg. core and swellable polymeric coatings)

REFERENCE COUNT:

64

REFERENCE(S):

- (1) Abramowitz; US 5536507 1996 CAPLUS
- (2) Anon; EP 0305918 1988 CAPLUS
- (3) Anon; EP 0366621 1989 CAPLUS
- (4) Anon; EP 0453001 1991 CAPLUS
- (5) Anon; EP 572942 1993 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:756375 CAPLUS

DOCUMENT NUMBER:

133:313662

TITLE:

Transdermal therapeutic system with neutralized

Searcher: Shears 308-4994

acrylate skin adhesives

INVENTOR (S):

Bracht, Stefan

PATENT ASSIGNEE(S):

Lts Lohmann Therapie-Systeme Ag, Germany

SOURCE:

Ger. Offen., 10 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
DE 19918106	A1 20001026	DE 1999-19918106	19990422
WO 2000064418	A2 20001102	WO 2000-EP3112	20000407
W: AU, BR,	CA, CN, CZ, HU,	IL, IN, JP, KR, MX, NZ,	PL, RU, TR,
US, ZA			
RW: AT, BE,	CH, CY, DE, DK,	ES, FI, FR, GB, GR, IE,	IT, LU, MC,
NL, PT,	SE		

PRIORITY APPLN. INFO.:

DE 1999-19918106 19990422

AB A transdermal matrix or a reservoir therapeutic system consists of at least 1 basic or neutral drug, and a skin adhesive polymer contg. acrylic methacrylic acid units. Thus, a transdermal therapeutic system consists of a drug, e.g., tulobuterol (5%) based on a polyacrylate matrix.

IT 9003-01-4, Poly(acrylic acid)

RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(crosslinked; transdermal therapeutic system with neutralized acrylate skin adhesives)

IT 58-22-0, Testosterone

RL: BPR (Biological process); THU (Therapeutic use); BIOL
(Biological study); PROC (Process); USES (Uses)
 (transdermal therapeutic system with neutralized acrylate skin adhesives)

IT 110-27-0, Isopropyl myristate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (transdermal therapeutic system with neutralized acrylate skin adhesives)

REFERENCE COUNT:

8

REFERENCE(S):

- (1) Anon; EP 0387751 A2 CAPLUS
- (2) Anon; DE 19653605 A1 CAPLUS
- (3) Anon; DE 19728516 A1 CAPLUS
- (4) Anon; DD 279611 A1 CAPLUS
- (5) Anon; DE 4310012 A1 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:511009 CAPLUS

DOCUMENT NUMBER:

131:149308

Searcher

Shears 308-4994

Pharmaceutical emulsion for transdermal TITLE: administration of steroids and antihormones Conduzorgues, Jean-Pascal; Sincholle, Daniel; INVENTOR(S): Muquet, Valerie Centre De Recherche D'innovation Et De PATENT ASSIGNEE(S): Developpement, Fr. PCT Int. Appl., 17 pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent French LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. PATENT NO. KIND DATE DATE WO 1999-FR257 19990205 WO 9939695 **A1** 19990812 W: CA, JP, MX, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE FR 2774595 19990813 FR 1998-1433 19980206 PRIORITY APPLN. INFO.: FR 1998-1433 19980206 The invention concerns a compn. for the transdermal administration of an active principle selected among steroids and antihormones, which is obtained by mixing, with an oil-in-water emulsion consisting of: (a) 10 to 45 wt.% of an oil phase; (b) 10 to 45 wt.% of a gelled aq. phase; (c) 2 to 10 wt.% of an emulsifier; from 0.1 to 10 wt.% relative to the emulsion wt. of the steroid or antihormone soln. in a solvent selected among ethers. A transdermal pharmaceutical compn. contained 17.beta.-estradiol 0.06, solketal 4, liq. paraffin 10, isohexadecane 10, cyclomethicone 2, cetyl alc. 0.5, Polysorbate-60 3.5, sorbitan monostearate 1.5, iso-Pr myristate 13, Me parahydroxybenzoate 0.10, Pr parahydroxybenzoate 0.05, Carbopol 974-P 0.5, 10% sodium hydroxide soln. propylene glycol 2, and water q.s. 100%. 110-27-0, Isopropyl myristate RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (pharmaceutical emulsion for transdermal administration of steroids and antihormones) REFERENCE COUNT: REFERENCE(S): (1) Lederle Japan Ltd; JP 06256218 A 1994 CAPLUS (2) Schering, A; WO 9522322 A 1995 CAPLUS (3) Sekisui Chem Ind Co Ltd; JP 07010759 A 1995 **CAPLUS**

ANSWER 4 OF 8 CAPLUS COPYRIGHT 2001 ACS

1999:325798 CAPLUS

Searcher

308-4994

Shears

ACCESSION NUMBER:

130:343027

DOCUMENT NUMBER:

```
Penetration enhancing and irritation reducing
TITLE:
                          topical formulations
                          Mak, Vivien H. W.; Grayson, Stephen
INVENTOR (S):
                          Cellegy Pharmaceuticals, Inc., USA
PATENT ASSIGNEE(S):
                          PCT Int. Appl., 29 pp.
SOURCE:
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                             APPLICATION NO.
                                                               DATE
     PATENT NO.
                       KIND
                             DATE
                             19990520
                                             WO 1998-US23750
                                                               19981109
     WO 9924041
                        A1
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,
             MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                             AU 1999-13132
                                                               19981109
     AU 9913132
                        Α1
                             19990531
                                             EP 1998-956663
     EP 1030668
                        Α1
                             20000830
                                                               19981109
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
             PT, IE, SI, LT, LV, FI, RO
                                                               19981109
                             20000926
                                             BR 1998-14014
     BR 9814014
                        Α
                                             US 1997-64980
                                                               19971110
PRIORITY APPLN. INFO.:
                                             WO 1998-US23750 19981109
AB
     This invention lies in the technol. of transdermal and topical drug
     delivery. In particular, the present invention relates to
     enhancement of the penetration of transdermally or topically applied
     drugs and with the redn. of skin irritation that often accompanies
     transdermal and topical drug delivery. Thus a gel was obtained from EtOH 0.1-50, propylene glycol 0.1-50, iso-PrOH 0.1-50% oleic acid
    0.1-50, gelling agent 0.01-50%, addnl. irritation reducers 0.1-50,
     preservatives 0-0.1 (the formulation may be self-preserving) and
     drug 0% to satn.
     58-22-0, Testosterone 64-17-5,
IT
     Ethanol, biological studies 67-63-0, Isopropanol,
     biological studies 71-23-8, Propanol, biological studies
     76050-42-5, Carbopol 940 96827-24-6,
     Carbopol 1342
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (penetration enhancing and irritation reducing topical
        formulations)
REFERENCE COUNT:
                           Searcher
                                               Shears
                                                         308-4994
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inviet &

REFERENCE(S):

- (1) Patel; US 4863970 A 1989 CAPLUS
- (2) Thornfeldt; US 5760096 A 1998 CAPLUS

L9 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1999:297228 CAPLUS

DOCUMENT NUMBER:

130:342991

TITLE:

Transdermal patch comprising a combination of

two or more fatty acids or alcohols as

permeation enhancers

INVENTOR (S):

Carrara, Dario

PATENT ASSIGNEE(S):

Permatec Technologie AG, Switz.

SOURCE:

Eur. Pat. Appl., 45 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	PEN T N	ю.		KII	ND	DATE			Al	PPL	ICA	TIC	N N	ο.	DATE		
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1	EΡ	91315)	A:	_	1999				_			.746	_	1998		
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, I	Т,	LI,	LU,	NL,	SE,	MC,
			PT,	ΙE,	SI,	LT,	LV,	FI,	RO									
	ZA	98084	21		A		1999	0317		\mathbf{z}	1	998	-84	21		1998	0915	
	ΑU	98842	30		A:	1	1999	0401		ΑŪ	J 1	998	-84	230		1998	0915	
	JP	11152	224		A:	2	1999	0608		J	? 1	998	-26	364	9	1998	0917	
PRIO	RITY	Y APPL	N	INFO	. :					I	r 1	997	-MI	210	6	1997	0917	
AB	Αŗ	patch	for	tra	nsde	rma 1	l adm	inis	trat	ion o	of	dru	gs	thr	ougl	con	trol	led
	re]	lease	syst	tem,	cons	sist	ing	esse	ntia:	lly d	of:	(A	.) a	fl	exil	ole b	ackiı	ng

AB A patch for transdermal administration of drugs through controlled release system, consisting essentially of: (A) a flexible backing layer; (B) an adhesive layer comprising: an adhesive pressure sensitive adhesive polymeric matrix, a cohesion improver, a tackifier agent, a combination of permeation enhancers consisting of a first component which is a satd. fatty acid or fatty alc. represented by the formula CH3-(CH2)n-COOH or CH3-(CH2)n-CH2OH resp., in which n is an integer from 6 to 16, and of a second component which is a monounsatd. fatty acid or fatty alc. represented by the formula CH3 - (CnH2(n-1))-COOH or CH3-(CnH2(n-1))-CH2OH resp., in which n is an integer from 8 to 22, with the provision that the chain length of the first component is different from that of the second component, (C) a protective liner, which is removed at the moment of use. An adhesive matrix contained alprazolam (I) 7.364, oleic acid 5.846, Et cellulose 0.491, Foral 105-E 9.809, Duro Tak 87-2852 76.454, BTH 0.030, and BHA 0.005%. The in vitro release of I was studied.

IT 58-22-0, Testosterone 9003-01-4, Acrylic

acid polymers

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (transdermal patch comprising combination of two or more fatty acids or alcs. as permeation enhancers)

Searcher

Shears

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REFERENCE COUNT:
                         (1) Cygnus Therapeutic Systems; WO 9312744 A
REFERENCE(S):
                         (2) Du Pont; EP 0171742 A 1986 CAPLUS
                         (3) Hoffmann La Roche; WO 9529678 A 1995 CAPLUS
                         (4) Kalbitz, J; PHARMAZIE 1996, V51(9), P619
                             CAPLUS
                         (6) Riker Laboratories Inc; EP 0376534 A 1990
                             CAPLUS
                         ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 6 OF 8 CAPLUS COPYRIGHT 2001 ACS
L9
                       1997:372273 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        126:347323
                        Buccal delivery of glucagon-like insulinotropic
TITLE:
                        peptides (GLPs)
                        Heiber, Sonia J.; Ebert, Charles D.; Gutniak,
INVENTOR (S):
                        Mark K.
                         Theratech, Inc., USA
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl., 55 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                           APPLICATION NO. DATE
                    KIND DATE
     PATENT NO.
     WO 9715296
                                          WO 1996-US16890 19961022
                            19970501
                      A1
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
            DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR,
            KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,
            NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA,
            UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
            GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI
                           19980616
                                         US 1995-553807 19951023
     US 5766620
                      Α
                                          CA 1996-2235369 19961022
                           19970501
     CA 2235369
                      AΑ
                                          AU 1996-74647
                                                           19961022
     AU 9674647
                      A1
                           19970515
     AU 716038
                      B2
                            20000217
                                          EP 1996-936815
     EP 859606
                      A1
                           19980826
                                                           19961022
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
            PT, IE, FI
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Α

A T2

A

CN 1202820

BR 9611139

JP 11513982

US 5863555 ·

PRIORITY APPLN. INFO.:

19981223

19990406

19991130

19990126

Searcher :

CN 1996-198618

BR 1996-11139

JP 1996-516712

US 1995-553807

US 1997-964731 19971105

WO 1996-US16890 19961022

Shears 308-4994

19961022

19961022

19961022

19951023

Drug delivery systems for administering a GLP to the buccal mucosa AB for transmucosal drug delivery comprise a drug compn. contg. effective amts. of the GLP and a permeation enhancer, and means for maintaining the drug compn. in a drug-transferring relation with the buccal mucosa. These systems can be in free form, such as creams, gels, and ointments, or can comprise a device of detd. phys. form, such as tablets, patches, and troches. A preferred GLP is GLP-1(7-36) amide. Thus, a gingival bilayer tablet was prepd. comprising an active layer and an adhesive layer. adhesive layer was prepd. by mixing polyethylene oxide 70, Carbopol 934P 20, and compressible xylitol/CM-cellulose filler 10 wt. parts, granulating with EtOH, sieving, drying, mixing with stearic acid 0.25 and mint flavor 0.06 wt.%, and compression. To prep. the active layer, mannitol 49.39, hydroxypropylcellulose 34.33, and Na taurocholate 15.00 wt.% were mixed, granulated with EtOH, sieved, dried, combined with GLP-1(7-36) amide 0.91, FD&C Yellow No. 6HT 0.06, Mg stearate 0.25, and mint flavor 0.06 wt.%; 50 mg of this mixt. was compressed onto 50 mg adhesive layer.

110-27-0, Isopropyl myristate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (permeation enhancer; buccal delivery of glucagon-like insulinotropic peptides)

ANSWER 7 OF 8 CAPLUS COPYRIGHT 2001 ACS L9

ACCESSION NUMBER: 1996:340830 CAPLUS

DOCUMENT NUMBER: 125:11171

TITLE: Preparation of epoxycyclohexane derivatives as

plant growth regulators

Sakai, Kunikazu; Kamuro, Yasuo; Takatsuto, INVENTOR(S):

> Suguru; Watanabe, Tsuyoshi; Kuriyama, Hiroki Sagami Chemical Research Center, Japan; Tama

Biochemical Co., Ltd.; Bal Planning Co., Ltd.

PCT Int. Appl., 32 pp. SOURCE:

CODEN: PIXXD2

Patent DOCUMENT TYPE:

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

IT

PA?	TENT NO.	KIND DATE	APPLICATION NO. DATE
WO	9608481	A1 19960321	WO 1995-JP1816 19950913
	W: AU, BR,	CA, CN, KR, RU,	US
	RW: AT, BE,	CH, DE, DK, ES,	FR, GB, GR, IE, IT, LU, MC, NL, PT,
	SE		
JP	08081453	A2 19960326	JP 1994-244863 19940914
JP	08081310	A2 19960326	JP 1994-244937 19940914
CA	2199959	AA 19960321	CA 1995-2199959 19950913
AU	9534845	A1 19960329	AU 1995-34845 19950913
		Searcher	: Shears 308-4994

CN 1174552	A	19980225	CN 1995-196087	19950913
RU 2126396	C1	19990220	RU 1997-105767	19950913
US 5801123	A	19980901	US 1997-809051	19970313
US 5965488	. A	19991012	US 1998-66805	19980424
PRIORITY APPLN. I	NFO.:		JP 1994-244863	19940914
			JP 1994-244937	19940914
			WO 1995-JP1816	19950913
			US 1997-809051	19970313

OTHER SOURCE(S):

MARPAT 125:11171

GI

AΒ Plant growth regulators contg. an epoxycyclohexane deriv. represented by general formula I and another plant growth regulator contg. both the epoxycyclohexane deriv. and a brassinosteroid as the active ingredient are claimed. In said formula, R1 represents hydrogen, C1-C6 alkyl or C3-C6 cycloalkyl; and R2 and R3 either represent each independently C1-C6 alkyl or are combined together to represent C2-C3 polymethylene that may be substituted by C1-C6 alkyl. Thus, I [R1 = H, R2R3 = CH2CH2] was esterified with Pr alc. to give the title compd. I [R1 = propyl], which at 10 ppm effected a 115.2% growth in mung bean compared with 100% for the control. The title compds. I have a potent plant growth regulating effect equiv. or superior to that of abscisic acid and is useful as a plant growth regulator, e.g., plant growth accelerator, germination accelerator, transpiration/wilting inhibitor, cold resistance enhancer, and accelerator for the growth, thickening or ripening of fruits, roots, stems or bulbs. The combination of the deriv. with the steroid produces a synergistic effect.

64-17-5, Ethanol, reactions 67-63-0, IT 2-Propanol, reactions 71-23-8, 1-Propanol, reactions

RL: RCT (Reactant)

(epoxycyclohexane derivs. and plant growth regulators)

ANSWER 8 OF 8 CAPLUS COPYRIGHT 2001 ACS 1983:132152 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

98:132152

TITLE:

Sensitive-skin care regime

Searcher Shears 308-4994

INVENTOR(S): Flom, Merlyn G.; Herrold, Anne M.; Martin, Joe

O.; Mentlik, Anton A.; Warrick, Patricia P.

PATENT ASSIGNEE(S): Lilly, Eli, and Co. , USA

SOURCE: U.S., 5 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4368187	A	19830111	US 1981-289658	19810803
AU 8178264	A 1	19830210	AU 1981-78264	19811204
AU 553483	B2	19860717		
CA 1239588	A1	19880726	CA 1981-391499	19811204
PRIORITY APPLN. INFO.	:		US 1981-289658	19810803

AB Sensitive skin is treated without causing irritation with a four component regime: a cleanser, a toner, a moisturizer and a cream.

Formulations for the 4 components were given.

IT 110-27-0 9003-01-4

RL: BIOL (Biological study)

(cosmetics contg., for sensitive skin)

(FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, JAPIO' ENTERED AT 14:39:38 ON 29 MAR 2001)

L10 8 S L9

L11 8 DUP REM L10 (0 DUPLICATES REMOVED)

1 ANSWER 1 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER: 2001-138266 [14] WPIDS

DOC. NO. CPI: C2001-040766

TITLE: Drug composition for controlled release of a

topically administered active agent e.g. a nematocide or local anesthetic, comprises the

active agent, a water insoluble polymer and a water miscible solvent in which the polymer is soluble.

DERWENT CLASS: A96 B07 D21 D22

INVENTOR(S): FUKUMOTO, R; NOMURA, M; SHIMIZU, T; TATARA, M

PATENT ASSIGNEE(S): (SATO) SATO PHARM CO LTD; (SUNR) SUNTORY LTD

COUNTRY COUNT: 22

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2001003742 A1 20010118 (200114)* JA 28

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: CN JP KR US

Searcher: Shears 308-4994

APPLICATION DETAILS:

PATENT NO KIND APPLICATION ______ WO 2000-JP4651 20000712 WO 2001003742 A1

PRIORITY APPLN. INFO: JP 1999-198012 19990712

2001-138266 [14] WPIDS

WO 200103742 A UPAB: 20010312 AB

NOVELTY - Drug composition for topical administration comprises:

- (1) an active agent;
- (2) a water-insoluble polymer;
- (3) a water-miscible solvent in which the polymer is soluble; and, optionally,
 - (4) other additives.

USE - As a drug composition for topical administration especially to the mouth cavity e.g. on the teeth.

ADVANTAGE - The composition remains in the region of application for a long period of time thus allowing the drug to be released topically at a controlled rate. Dwg.0/4

L11 ANSWER 2 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER: 2000-549679 [50] WPIDS

DOC. NO. NON-CPI: N2000-406690

DOC. NO. CPI:

C2000-164113

TITLE: -

Topical compositions containing the active substance in micro-droplets of water insoluble liquid; use for wide variety of pharmaceutical, medicinal, vitamin, and cosmetic materials.

DERWENT CLASS:

A96 B07 D21 P34

INVENTOR(S):

LULLA, A

PATENT ASSIGNEE(S): (AMAR-N) L'AMAR INT PVT LTD

COUNTRY COUNT:

PATENT INFORMATION:

WEEK LA PG PATENT NO KIND DATE ZA 9907202 A 20000628 (200050)*

APPLICATION DETAILS:

APPLICATION KIND PATENT NO ______ ZA 1999-7202 19991119 ZA 9907202

PRIORITY APPLN. INFO: ZA 1998-11693 19981221

Searcher: Shears 308-4994

AN 2000-549679 [50] WPIDS

9907202 A UPAB: 20001010 AB

> NOVELTY - Composition for topical application, which includes an active substance in the form of micro-droplets of water insoluble liquid.

MECHANISM OF ACTION - Due to the finely divided particulate nature of the active substance, enhanced dermal penetration is achieved.

USE - Uses for the composition are in the medicinal, pharmaceutical, and cosmetic areas, to obtain a topical and/or systemic effect. A wide variety of drugs are suggested; steroids including estrogens, non-steroidal antiinflammatories, antibiotics, antifungals, antivirals, antihistamines, antineoplastics, hypnotics and sedatives, anxiolytics, antidepressants, anticonvulsnts, antifungals, prostanoidb agonists and antagonists, analgesics, hormones, vitamins, essential fatty acids, retinoids and carotenes, and benzoyl peroxide.

ADVANTAGE - As stated in Mechanism of Action, enhanced penetration is achieved by the finer particles. It is emphasized that the composition is not like liposome or microemulsion compositions, as these require large amounts of surfactants, a disadvantage.

L11 ANSWER 3 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

Dwg.0/0

1999-288153 [24] WPIDS

DOC. NO. CPI:

C1999-085184

TITLE:

New alcoholic or aqueous alcoholic topical

composition.

DERWENT CLASS:

B07

INVENTOR(S):

GYURIK, R J; KRAUSER, S F; SAMOUR, C M

PATENT ASSIGNEE(S):

(MACR-N) MACROCHEM CORP

COUNTRY COUNT:

22

PATENT INFORMATION:

WEEK PATENT NO KIND DATE LΆ

WO 9920257 A1 19990429 (199924)* EN 31

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: CA JP US

US 5968919 À 19991019 (199950)

EP 971705 A1 20000119 (200009) EN

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION DETAILS:

APPLICATION DATE PATENT NO KIND Searcher :

Shears

 WO 9920257
 A1
 WO 1998-US20895
 19981002

 US 5968919
 A
 US 1997-953014
 19971016

 EP 971705
 A1
 EP 1998-952067
 19981002

 WO 1998-US20895
 19981002

FILING DETAILS:

PATENT NO KIND PATENT NO
EP 971705 Al Based on WO 9920257

PRIORITY APPLN. INFO: US 1997-953014 19971016

AN 1999-288153 [24] WPIDS

AB WO 9920257 A UPAB: 19990624

NOVELTY - An alcoholic or aqueous alcoholic topical composition for the transdermal delivery of a hormonally acitve drug is new.

DETAILED DESCRIPTION - The composition comprises, on a weight basis, of the total composition, hormonally active drug (about 0.1-10%), skin penetration enhancer comprising 7-14C hydrocarbyl substituted 1,3-dioxolane, 1,3-dioxane or acetal (about 2-20%), propylene glycol (about 0-25%), volatile alcohol selected from ethanol and isopropanol and mixtures thereof (about 35-70%), water (about 0-35%) and optionally, a gelling agent to thicken the composition to avoid or minimize run-off when applied to the skin.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - The composition is useful for transdermal administration of a hormonally active drug. The vehicle comprises **ethanol**, isopropanol or a mixture of these with a 3-6C 1,2-alkyl diol and water in a ratio of **alcohol**/glycol/water of 50-80:5-20:5-40 and comprises about 70-90 weight% of the composition. The vehicle also comprises a skin penetration enhancing compound selected from 2-(7-14C hydrocarbyl)-1,3-dioxolane, 2-(7-14C hydrocarbyl)-1,3-dioxolane, 2-(7-14C hydrocarbyl) substituted-acetal.

L11 ANSWER 4 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1999-190445 [16] WPIDS

DOC. NO. CPI:

C1999-055999

TITLE:

Substantially neutral ibuprofen-containing alcoholic or aqueous alcoholic compositions - comprise ibuprofen salt, skin-penetration enhancing agent e.g. 2-n-nonyl-1,3-dioxolane, glycol e.g. propylene glycol, volatile alcohol e.g. ethanol, water, base and optional gelling

agent.

DERWENT CLASS:

B03 B05

INVENTOR(S):

GYURIK, R J; KRAUSER, S F; SAMOUR, C M

PATENT ASSIGNEE(S): (MACR-N) MACROCHEM CORP

Searcher : Shears

COUNTRY COUNT:

26

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 9909954 A1 19990304 (199916)* EN 66

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: BR CA CN JP KR MX

US 5976566 A 19991102 (199953)

EP 1014942 A1 20000705 (200035) EN

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9909954	A1	WO 1998-US17523	19980825
US 5976566	A	US 1997-921057	19970829
EP 1014942	A1	EP 1998-943357	19980825
		WO 1998-US17523	19980825

FILING DETAILS:

PATENT NO	KIND	PATENT NO
EP 1014942	A1 Based on	WO 9909954

PRIORITY APPLN. INFO: US 1997-921057 19970829

AN 1999-190445 [16] WPIDS

AB WO 9909954 A UPAB: 19990424

NOVELTY - Substantially neutral ibuprofen-containing alcoholic or aqueous alcoholic compositions comprise skin-penetration enhancing agent for improved transdermal delivery. DETAILED DESCRIPTION -Compositions comprise (a) therapeutically effective amount of ibuprofen in the form of pharmaceutically acceptable salt; (b) skin-penetration enhancing effective amount of 7-14C hydrocarbyl-substituted 1,3-dioxolane, 1,3-dioxane or acetal; (c) 0-18% 3-6C glycol; (d) at least 40% volatile alcohol chosen from ethanol and/or propanol; (e) 0-40% water; (f) base to give pH 6-8; and optional gelling agent effective to thicken the composition to avoid or minimize run-off when applied to the skin. INDEPENDENT CLAIMS are also included for (1) substantially neutral alcoholic or aqueous alcoholic topical compositions effective for the transdermal delivery of nonsteroidal anti-inflammatory drugs (NSAIDs) such as tolmetin, diclofenac, keterolac, arylpropionic acids (other than ibuprofen), anthranilic aci ds, enolic acids, alkanones, sulindac and etodolac; and (2) glycol-free topical compositions for transdermal administration of naproxen.

Searcher

Shears 308-4994

USE - Used for transdermal delivery of NSAIDs including ibuprofen, tolmetin, diclofenac, keterolac, arylpropionic acids, anthranilic acids, enolic acids, alkanones, sulindac, etodolac and naproxen (claimed). Provide topical, non-invasive application to the skin, particularly to the region where the NSAID is intended to exert its pharmacological activity, usually to a region of inflammation, injury or pain to the muscles or joints, or other forms of cutaneous disorders or disruption characterized by skin inflammation and/or hyperproliferative activity in the epidermis. Anti-inflammatory.

ADVANTAGE - The compositions are stable topical compositions effective for the transdermal delivery of ibuprofen or other NSAIDs. Use of 1,3-dioxolane, 1,3-dioxane or their corresponding acetal skin-penetration enhancing compounds substantially improves the flux rates and/or total delivery of NSAIDs. For naproxen, skin permeation is further enhanced by omission of glycol. The amount of propylene glycol may be varied to adjust the initial flux of NSAID through the skin. DESCRIPTION OF DRAWING(S) - Graph plotting flux of ibuprofen sodium in an in vitro study for an aqueous alcoholic gel containing 10 weight % 2-n-nonyl-1,3-dioxolane skin-penetration enhancer (v) and four commercial topical ibuprofen preparations: (A) Gelufene (RTM), (B) Deep Relief (TM), Ibutop (RTM) and Dolgit (RTM).

L11 ANSWER 5 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1998-322463 [28] WPIDS

DOC. NO. CPI:

C1998-099186

TITLE:

Homogeneous liquid composition capable of

percutaneous delivery of physiologically active agents - comprises a rate modulating polymer and a

volatile solvent.

DERWENT CLASS:

A96 B07

INVENTOR (S):

DAVEY, G; TOMLINSON, R

PATENT ASSIGNEE(S):

(SOLT-N) SOLTEC RES PTY LTD

COUNTRY COUNT:

81

PATENT INFORMATION:

PATENT	NO	KIND	DATE	WEEK	LA	PG

WO 9823291 A1 19980604 (199828)* EN 45

RW: AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI
GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT UA UG US UZ VN YU ZW

ZA 9710560 A 19980826 (199840) 43

AU 9749367 A 19980622 (199844)

Searcher: Shears 308-4994

NO	9902290	Α	19990	714	(1999	938)								
EP	944398	A1	19990	929	(1999	945)	EN							
	R: AT BE	CH I	E DK	ES	FI FR	GB GI	R IE	IT	LI	LU	MC	NL	PT	SE
CZ	9901812	A3	19991	.013	(1999	949)								
HU	9903792	A2	20000	328	(2000	025)								
SK	9900645	A3	20000	612	(2000	036)								
AU	723143	В	20000	817	(2000	044)							•	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9823291	A1	WO 1997-AU797	19971124
ZA 9710560	A	ZA 1997-10560	19971124
AU 9749367	А	AU 1997-49367	19971124
NO 9902290	A	WO 1997-AU797	19971124
		NO 1999-2290	19990511
EP 944398	A1	EP 1997-911978	19971124
		WO 1997-AU797	19971124
CZ 9901812	A3	WO 1997-AU797	19971124
		CZ 1999-1812	19971124
HU 9903792	A2	WO 1997-AU797	19971124
		HU 1999-3792	19971124
SK 9900645	А3 `	WO 1997-AU797	19971124
		SK 1999-645	19971124
AU 723143	В	AU 1997-49367	19971124

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9749367 EP 944398	A Based on Al Based on	WO 9823291 WO 9823291
CZ 9901812	A3 Based on	WO 9823291
HU 9903792 AU 723143	A2 Based on B Previous Publ. Based on	WO 9823291 AU 9749367 WO 9823291

PRIORITY APPLN. INFO: AU 1996-3795

19961122

AN 1998-322463 [28] WPIDS

AB WO 9823291 A UPAB: 19981021

A homogeneous liquid composition capable of percutaneous delivery of physiologically active agents (PA) comprises a rate modulating polymer (RMP), a volatile solvent (VERSUS) and at least 1 PA, RMP being selected to enable modulation of the rate of delivery of PA, and optionally a **thickening** agent (TA) excluding ethyl cellulose.

The liquid composition further comprises a penetration enhancer (PE) and optionally a second polymer, preferably of Searcher: Shears 308-4994

opposite water affinity to the first polymer (FP). The liquid composition further comprises a hydrophilic (HLP) and a hydrophobic polymer (HPP). Upon application to the skin the HPP or TA forms a continuous phase containing dispersed or dissolved HLP. Optionally the PA is contained in the continuous phase. Alternatively the composition is a dispersion and PA is contained in the dispersed phase upon application to the skin. HLP is a hydroxyalkyl cellulose, preferably hydroxypropyl cellulose and HPP is an octyl acrylamide or octyl propenamide acrylate copolymer. The TA is a polymer soluble in both alcohol and water, preferably a polymer of opposite water affinity to RMP.

USE - The composition is useful for percutaneous delivery of antimicrobial, antifungal or antiviral agents for treatment or prevention of diseases in humans or animals. The composition is typically useful for delivery of CNS drugs, nutritional agents, antiinflammatories, antihistamines, respiratory agents, sympathomimetics, amtimuscarinic or muscarinic cholinergic blocking agents, psychic energisers, antiinfectives, dermatological, humoral agents, antispasmodics, antidepressants, anorectics, antiallergenics, tranquillisers oestrogen's, androgenic steroids, cardioactive medicaments, antipsychotics, decongestants, antipyretics, antimigraine agents, drugs for treating nausea and vomiting, antimalarials, antiulcerative agents, peptides and proteins, antioestrogens and nucleotides.

ADVANTAGE - The compositions are non-occlusive, rate variable and effective for delivering and active agent via systemic, topical or local application. The active agents can be present in the composition in different forms depending on which form yields the optimum delivery characteristics. The system may also have wash resistance.

Dwg.0/5

L11 ANSWER 6 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1998-075142 [07] WPIDS

DOC. NO. NON-CPI:

N1998-060122

DOC. NO. CPI:

C1998-024986

TITLE:

Transdermal gel composition used e.g. for hormone replacement therapy - comprises oestrogen(s) and/or

progestin(s) with aliphatic alcohol

permeation enhancers.

DERWENT CLASS:

A96 B01 P34

INVENTOR(S):

CARRARA, D

PATENT ASSIGNEE(S):

(PERM-N) PERMATEC NV

COUNTRY COUNT:

25

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG
----NZ 328021 A 19971124 (199807)* 47

Searcher :

Shears

AU	9724729	Α	1997	L211	. (199	807)									
EP	811381	A:	l 1997	L210	(199	807)	1	EN							
	R: AT BE	CH	DE DK	ES	FI FR	GB	GR	ΙE	IT	LI	LU	MC	NL	PT	SE
ZA	9704981	A	19980	325	(199	819)			4	7					
JP	10072351	A	19980	317	(199	821)			14	1					
CA	2207144	Α	1997	1206	(199	824)									
KR	98000448	A	19980	330	(199	901)									
US	5891462	A	19990	406	(199	921)									
IT	1283102	В	19980	407	(199	953)									
ΑU	712465	В	19991	L104	(200	003)									

APPLICATION DETAILS:

PA	TENT NO	KIND	APPLICATION	DATE
			NZ 1997-328021	19970605
NZ	328021	A	NZ 1997-328021	133/0003
AU	9724729	A	AU 1997-24729	19970605
ΕP	811381	A1	EP 1997-108989	19970604
ZA	9704981	A	ZA 1997-4981	19970605
JР	10072351	A	JP 1997-185695	19970605
CA	2207144	A	CA 1997-2207144	19970605
KR	98000448	A	KR 1997-23704	19970604
US	5891462	A	US 1997-869982	19970605
IT	1283102	В	IT 1996-MI1152	19960606
AU	712465	В	AU 1997-24729	19970605

FILING DETAILS:

PATENT NO	KIND	PATENT NO
	- -	
ATT 712465	RI	revious Publ AII 9724729

PRIORITY APPLN. INFO: IT 1996-MI1152 19960606

AN 1998-075142 [07] WPIDS

AB NZ 328021 A UPAB: 19980216

A gel formulation for the transdermal administration of an active agent selected from oestrogens and/or progestins comprises: (i) the active agent(s); (ii) permeation enhancers consisting essentially of an aliphatic alcohol of formula CH3(CH2)nCH2OH (where n = 8-16) and a monoalkylether of diethylene glycol; (iii) a vehicle or carrier comprising a 2-4C alkanol, a glycol and water; (iv) as gelling agent a polymer or copolymer of acrylic acid; and (v) a tertiary amine as a thickening and neutralising agent.

 $\ensuremath{\mathsf{USE}}$ - The composition is useful for hormone replacement therapy (HRT) by transdermal route.

Daily dose of oestrogen based on 17- beta -oestradiol is $40-50 \, \text{mcg/day}$ and of progestin based on norethindrone acetate is $200-250 \, \text{mcg/day}$.

Searcher: Shears 308-4994

ADVANTAGE - The permeation enhancer gives adequate permeation rates across the skin for various steroid compositions, providing sustained and controlled penetration rates. Dwg.0/3

L11 ANSWER 7 OF 8 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1996:273722 BIOSIS DOCUMENT NUMBER: PREV199698829851

TITLE: Enhancing effect of terpenes on the in vitro

percutaneous absorption of diclofenac sodium.

AUTHOR(S): Arellano, A.; Santoyo, S.; Martin, C.; Ygartua, P.

CORPORATE SOURCE: Dep. Farm. Tecnol. Farmaceutica, Fac. Farmacia, Univ.

Navarra, Apdo. 273, 31080 Pamplona Spain

SOURCE: International Journal of Pharmaceutics (Amsterdam),

(1996) Vol. 130, No. 1, pp. 141-145.

ISSN: 0378-5173.

DOCUMENT TYPE: Article LANGUAGE: English

The enhancing effect of naturally occurring terpenes on the in vitro percutaneous absorption of diclofenac sodium (DFS) from carbopol gels containing propylene glycol was investigated. Permeation experiments were performed on excised abdominal rat skin. Terpenes varied in their activities: the alcohol terpenes were effective accelerants for the drug whereas the ketones were much less efficient, providing only a 2-to-3-fold increase in DFS diffusion; limonene showed mild accelerant activity and 1,8-cineole was a poor accelerant. Acyclic alcohols were found to be the best enhancers for DFS, being geraniol, with an almost 20-fold increase, the most outstanding penetration enhancer. However, although the addition of terpenes increased DFS flux, diffusional lag times were longer than for the control gel.

L11 ANSWER 8 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER: 1989-152357 [21] WPIDS

DOC. NO. CPI: C1989-067343

TITLE: Tipredane steroid ointment formulation -

contg. propylene glycol, water and cetearyl

alcohol and/or ceteareth 20 for enhanced

chemical and physical stability.

DERWENT CLASS: A96 B01 B07

INVENTOR(S): OLAUGHLIN, R L; PANAGGIO, A; VARIA, S A

PATENT ASSIGNEE(S): (SQUI) SQUIBB & SONS INC E R

COUNTRY COUNT: 16

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

EP 316815 A 19890524 (198921) * EN

. R: AT BE CH DE ES FR GB GR IT LI LU NL SE

Searcher: Shears 308-4994

JP	01153641	Α	19890615	(198930)		
US	4868168	Α	19890919	(198947)		5
ΕP	316815	B1	19920527	(199222)	EN	14
	R: AT BE	CH I	E ES FR	GB GR IT L	I LU	NL SE
DΕ	3871494	G	19920702	(199228)		
ES	2034117	Т3	19930401	(199323)		
CA	1326448	С	19940125	(199409)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 316815	A	EP 1988-118871	19881111
JP 01153641	A	JP 1988-286603	19881111
US 4868168	A	US 1987-120276	19871113
EP 316815	B1	EP 1988-118871	19881111
DE 3871494	G	DE 1988-3871494	19881111
	.*	EP 1988-118871	19881111
ES 2034117	Т3	EP 1988-118871	19881111
CA 1326448	C	CA 1988-579960	19881012

FILING DETAILS:

PATENT NO	KIND	PAT	ENT NO
DE 3871494	G Based	on EP	316815
ES 2034117	T3 Based	on EP	316815

PRIORITY APPLN. INFO: US 1987-120276 19871113

AN 1989-152357 [21] WPIDS

AB EP 316815 A UPAB: 19930923

A tipredane (I) ointment formulation having enhanced and an ointment base comprising on or more bilisers for (I) including propylene glycol, water, one or more dispersing agents for dispersing propylene glycol which includes cetearyl alcohol and/or ceteareth 20, at least one buffer to impart a neutral or slightly alkaline apparent pH, one or more emollients, one or more thickeners, opt. one or more lubricants and opt. one or more antioxidants.

The buffer may be e.g. sodium citrate, potassium citrate, Mg(OH)2, an alkali metal hydroxide or aluminium hydroxide, The thickener may be a non-acedic long chain fatty acid wax. The emollient may be a mixt. of polysynlane oil and mineral oil or cetyl alcohol, isopropyl isosearate, isopropyl myristate, isopropyl palmitate or octyl dodecyl stearate, the lubricant may be a silicone and the antioxidant may be sodium metabisulphite, butylacted hydroxytoluene, butylated hydroxyanisole, propyl gallate or sodium ascorbate.

USE/ADVANTAGE - (I) (see US4361559) is a higly effective Searcher : Shears 308-4994 topical antiinflammatory agent. The ointment is used esp. for the treatment of dermatitis. The ointment has good chemical and physical stability even after prolonged storage at 5 deg.C, temp. and 40 deg.C.

ABEQ DE 3871494 G UPAB: 19930923

A tipredane (I) ointment formulation having enhanced and an ointment base comprising on or more bilisers for (I) including propylene glycol, water, one or more dispersing agents for dispersing propylene glycol which includes cetearyl alcohol and/or ceteareth 20, at least one buffer to impart a neutral or slightly alkaline apparent pH, one or more emollients, one or more thickeners, opt. one or more lubricants and opt. one or more antioxidants.

The buffer may be e.g. sodium citrate, potassium citrate, Mg(OH)2, an alkali metal hydroxide or aluminium hydroxide, The thickener may be a non-acedic long chain fatty acid wax. The emollient may be a mixt. of polysynlane oil and mineral oil or cetyl alcohol, isopropyl isosearate, isopropyl myristate, isopropyl palmitate or octyl dodecyl stearate, the lubricant may be a silicone and the antioxidant may be sodium metabisulphite, butylacted hydroxytoluene, butylated hydroxyanisole, propyl gallate or sodium ascorbate.

USE/ADVANTAGE - (I) (see US4361559) is a higly effective topical antiinflammatory agent. The ointment is used esp. for the treatment of dermatitis. The ointment has good chemical and physical stability even after prolonged storage at 5 deg.C, temp. and 40 deg.C.

ABEQ EP 316815 B UPAB: 19930923

A tipredane ointment formulation having enhanced chemical and physical stability comprising tipredane and an ointment base comprising one or more solubilisers for tipredane including propylene glycvol, water, one or more dispersing agents for dispersing propylene glycol which includes cetearyl alcohol, ceteareth 20 or a mixt. thereof, at least one buffer to impart a neutral or slightly alkaline apparent pH to the ointment formulation, one or more emollients, one or more thickeners, opt. one or more lubricants and opt. one or more antioxidants.

ABEQ US 4868168 A UPAB: 19930923

New chemically and physically stable tipredane ((11beta,17alpha)-17-(ethylthio)-9alpha-fluoro-11beta -hydroxy-17-(methylthio)
androsta-1,4-dien-3-one) of formula (I), ointment compsn. comprises 0.005-0.5 pts. (I) and wax-gel base contg. 3-25% wt. solubilisers including propylene glycol; 0.1-15% water; 1-15% dispersing agents viz. cetearyl alcohol, cetereth 20; Na/K citrate/Mg (OH)2
buffer to pH 5-9; 25-95% emollients; 5-20% thickeners e.g. non-acidic long chain fatty acid wax; 0.5-6% lubricants; and opt. 0.01-1% antioxidants. Ointment is free of petroleum and mineral oil gelled with polyethylene.

ADVANTAGE - Avoids the coalescence and sepn. problems of Searcher : Shears 308-4994

propylene glycol/Plastibase or petrolactum mixts.

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(FILE 'MEDLINE' ENTERED AT 14:45:08 ON 29 MAR 2001)
         42388 SEA FILE=MEDLINE ABB=ON PLU=ON ETHANOL/CT
L12
           122 SEA FILE=MEDLINE ABB=ON PLU=ON 2-PROPANOL/CT
L13
            82 SEA FILE=MEDLINE ABB=ON PLU=ON PROPANOLS/CT
L14
         38374 SEA FILE=MEDLINE ABB=ON PLU=ON TESTOSTERONE/CT
L15
           312 SEA FILE=MEDLINE ABB=ON PLU=ON (L12 OR L13 OR L14) AND
L16
               L15
          6684 SEA FILE=MEDLINE ABB=ON PLU=ON IMPOTENCE/CT
L17
             3 SEA FILE=MEDLINE ABB=ON PLU=ON L16 AND L17
L18
=> d 1-3 .beverlymed
L18
    ANSWER 1 OF 3 MEDLINE
AN
    86141404
                 MEDLINE
    Alcohol and testosterone levels [letter].
TI
    Barrett-Connor E
AU
    JOURNAL OF THE AMERICAN GERIATRICS SOCIETY, (1986 Apr) 34 (4) 325-6.
SO
     Journal code: H6V. ISSN: 0002-8614.
L18 ANSWER 2 OF 3 MEDLINE
    81028143
                 MEDLINE
AN
    The alcoholic man - too much/too little.
TI
ΑU
    Morin R A
    JOURNAL OF PSYCHEDELIC DRUGS, (1980 Apr-Jun) 12 (2) 167-9.
SO
    Journal code: J8R. ISSN: 0022-393X.
    ANSWER 3 OF 3 MEDLINE
L18
AN
    80178308
                 MEDLINE
ΤI
    A review of alcohol's effects on sex and reproduction.
    Abel E L
ΑU
    DRUG AND ALCOHOL DEPENDENCE, (1980 May) 5 (5) 321-32. Ref: 80
SO
    Journal code: EBS. ISSN: 0376-8716.
    Alcohol increases libido, inhibits sexual physiological responses
    and adversely affects reproductive processes in men and women. The
    mechanisms that underlie these effects are examined and the
     implications of these effects are discussed.
    FILE 'CAPLUS' ENTERED AT 14:56:20 ON 29 MAR 2001
L1
             3 SEA FILE=REGISTRY ABB=ON PLU=ON (ETHANOL OR "2-PROPANOL
                " OR "N-PROPANOL")/CN
             1 SEA FILE=REGISTRY ABB=ON PLU=ON ISOPROPYL MYRISTATE/CN
L2
        205155 SEA FILE=CAPLUS ABB=ON PLU=ON L1 OR ETHANOL OR (ET OR
L5
               ETHYL) (W) ALCOHOL OR (2 OR N) (W) PROPANOL
           390 SEA FILE=CAPLUS ABB=ON PLU=ON (2 OR N) (W) PROPYL
L6
               ALCOHOL
          2617 SEA FILE=CAPLUS ABB=ON PLU=ON (L5 OR L6 OR ALCOHOL)
L7
                         Searcher
                                            Shears
                                                      308-4994
                                    :
```

```
AND (L2 OR ENHANCER OR (ISOPROPYL OR (ISO OR I) (W) (PROPYL
 OR PR))(W)MYRISTATE)
```

L19

20 SEA FILE=CAPLUS ABB=ON PLU=ON L7 AND ((SEXUAL? OR ERECT?) (3A) (DYSFUNCT? OR DISORDER) OR IMPOTENC?)

=> s l19 not l9

L20

1

20 L19 NOT L9

=> d 1-20 .bevstr

L20 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:842140 CAPLUS

DOCUMENT NUMBER:

134:29416

TITLE:

3-(Benzo[b]thiophen-3-yl)-5,6-dihydroimidazo[2,1b] thiazoles and related thiazolo derivatives,

useful as 5-HT1A agonists and noradrenaline reuptake inhibitors, and pharmaceutical

compositions containing them

INVENTOR(S):

Brough, Paul Andrew; Cheetham, Sharon Crawford;

Kerrigan, Frank; Watts, John Paul

PATENT ASSIGNEE(S):

Knoll Aktiengesellschaft, Germany

SOURCE:

PCT Int. Appl., 95 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIN					ID DATE APPLICATION NO.						o. :	DATE				
	. -															
WO: 2000	WO 2000071549 A1				20001130			WO 2000-EP4279 2000					2000	0511		
W: AE, AG, AL			AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	
													GE,			
	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	
	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	
	US,	UΖ,	VN,	ΥU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM	
RW	GH,	GM,	ΚE,	LS,	MW,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZW,	AT,	BE,	CH,	CY,	
	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	
	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
PRIORITY AP					G:	В 19	99-1	1863		1999	0521					
OTHER SOURCE(S):				MARPAT 134:29416												
GI																

AB Compds. of formula I, which are both 5-HT1A agonists and noradrenaline reuptake inhibitors, are disclosed [wherein: A = S or O; m = 0-4; n = 2-3; R1 = halo, (halo)alkyl, (halo)alkoxy, (halo) alkylthio, -sulfinyl, -sulfonyl, acyloxy, cyano, OH, alkanoyl, carbamoyl, etc.; R2, R3 = H; R4 = hydroxyalkyl, hydroxyalkenyl, hydroxyalkynyl, alkenyl, arylalkenyl, cycloalkyl, alkylthio, arylthio, alkanoyl, cyano, halo, alkylaminoalkyl, etc.; R5 = H, halo]. Also disclosed are processes to prep. I, compns. contg. I, and their use in the treatment of depression, anxiety, psychoses (for examples schizophrenia), tardive dyskinesia, obesity, drug addiction, drug abuse, cognitive disorders, Alzheimer's disease, cerebral ischemia, obsessive-compulsive behavior, panic attacks, social phobias, eating disorders such as bulimia, anorexia, snacking and binge eating, non-insulin dependent diabetes mellitus, hyperglycemia, hyperlipidemia, and stress, and their use in the treatment and/or prophylaxis of seizures, neurol. disorders such as epilepsy and/or conditions in which there is neurol. damage such as stroke, brain trauma, cerebral ischemia, head injuries and hemorrhage, and as an aid to smoking cessation. The compds. are particularly useful in treating obesity and related co-morbid conditions such as diabetes, hyperglycemia, and hyperlipidemia. are more selective than known compds. of similar structure, having lower activity as monoamine oxidase inhibitors and muscarinic receptor ligands, which are likely to cause undesired side effects. It is also postulated that the 5-HT1A agonism of the compds. reduces the cardiovascular side effects of their monoamine reuptake inhibition, and this combined action (esp. in an antiobesity drug) is covered by claims. Over 50 synthetic examples are given. For instance, 3-(benzo[b]thiophen-3-yl)-5,6-dihydroimidazo[2,1b]thiazole hydrobromide was neutralized, lithiated with BuLi, and formylated with DMF, followed by NaBH4 redn. of the resultant aldehyde, to give title compd. II. The latter compd. had Ki values (nM) as follows: 5-HT1A receptors 13, 5-HT uptake sites 398, NA uptake sites 3.7, and only 19% binding at muscarinic receptors at 10-6 M.

REFERENCE COUNT:

REFERENCE(S):

(1) Knoll Ag; WO 9702269 A 1997 CAPLUS

(2) Knoll Ag; WO 9841528 A 1998 CAPLUS Searcher : Shears 308-4994 L20 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:824132 CAPLUS

DOCUMENT NUMBER:

134:9362

TITLE:

Topical compositions for prostaglandin E1

delivery

INVENTOR(S):

Yeager, James L.; Buyuktimkin, Nadir;

Buyuktimkin, Servet

PATENT ASSIGNEE(S):

Nexmed Holdings, Inc., USA

SOURCE:

PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	KIND	DATE		APPLI	CATION	NO.	DATE			
WO 2000	069469	A1 20001123			WO 1999-US10596 19990513					
W:	AE, AL,	AM, AT	, AU, AZ,	BA,	BB, BG,	BR, B	Y, CA,	CH,	CN, C	CU,
	CZ, DE,	DK, EE	, ES, FI,	GB,	GD, GE,	GH, G	M, HR,	ΗU,	ID,	IL,
	IN, IS,	JP, KE	, KG, KP,	KR,	KZ, LC,	LK, L	R, LS,	LT,	LU, 1	LV,
	MD, MG,	MK, MN	, MW, MX,	NO,	NZ, PL,	PT, R	o, RU,	SD,	SE, S	SG,
	SI, SK,		, TM, TR,	TT,	UA, UG,	US, U	z, vn,	YU,	ZA, 2	ZW,
	AM, AZ,	BY, KG	, KZ, MD,	RU,	TJ, TM					
RW:	GH, GM,	KE, LS	, MW, SD,	SL,	SZ, UG,	ZW, A	T, BE,	CH,	CY, 1	DE,
	DK, ES,	FI, FR	, GB, GR,	ΙE,	IT, LU,	MC, N	L, PT,	SE,	BF, I	ВJ,
	CF, CG,	CI, CM	, GA, GN,	GW,	ML, MR,	NE, S	N, TD,	TG		
AU 9939	891	A1	20001205		AU 1999-39891 19990513					
PRIORITY APP	LN. INFO	.:		US 1997-954509 1997110						
					WO 19	99-US1	0596	19990	513	

OTHER SOURCE(S): MARPAT 134:9362

locust bean gum.

A compn. of a semi-solid consistency is provided for use in the manuf. of a topical medicament for the transdermal application of prostaglandin E1. The compn. comprises prostaglandin E1, a penetration enhancer, a polysaccharide gum, a lipophilic compd., and an acidic buffer system. The penetration enhancer is an alkyl-2-(N,N-disubstituted amino)-alkanoate ester, an (N, N-disubstituted amino) -alkanol alkanoate, or a mixt. of these. The lipophilic compd. may be an aliph. C1 to C8 alc ., an aliph. C8 to C30 ester, or a mixt. of these. The compn. includes a buffer system capable of providing a buffered pH value for said compn. in the range of about 3 to about 7.4. The compn. is useful for the manuf. of medicaments for the treatment of erectile dysfunction, female sexual dysfunction and peripheral vascular disease. A topical compn. was prepd. contg. prostaglandin E1, ethanol, dodecyl 2-(N,N-dimethylamino)propionate, Et laurate, buffer, and

Searcher: Shears 308-4994

64-17-5, Ethanol, biological studies

IT

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110-27-0, Isopropyl myristate
    RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (topical compns. for prostaglandin E1 delivery)
REFERENCE COUNT:
                         1
                         (1) Nexmed Holdings; WO 9922714 A 1999 CAPLUS
REFERENCE(S):
L20 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER:
                         2000:608551 CAPLUS
DOCUMENT NUMBER:
                         133:213151
TITLE:
                         Pharmaceutical compositions and methods for
                         improved delivery of hydrophobic therapeutic
                         Patel, Manesh V.; Chen, Feng-Jing
INVENTOR (S):
                         Lipocine, Inc., USA
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl., 98 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                           APPLICATION NO. DATE
     PATENT NO.
                     KIND DATE
                                           -----
                                           WO 2000-US165
                                                            20000105
     WO 2000050007
                       A1
                            20000831
        W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
             CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
             ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                           US 1999-258654
                                                            19990226
     The present invention relates to triglyceride-free pharmaceutical
AB
     compns. for delivery of hydrophobic therapeutic agents. Compns. of
     the present invention include a hydrophobic therapeutic agent and a
     carrier, where the carrier is formed from a combination of a
     hydrophilic surfactant and a hydrophobic surfactant. Upon diln.
     with an aq. solvent, the compn. forms a clear, aq. dispersion of the
     surfactants contg. the therapeutic agent. The invention also
     provides methods of treatment with hydrophobic therapeutic agents
     using these compns. A pharmaceutical compn. contained cyclosporin
     0.14, Cremophor RH-40 0.41, Arlacel186 0.29, sodium taurocholate
     0.26, and propylene glycol 0.46 mg.
IT
     64-17-5, Ethanol, biological studies
     67-63-0, Isopropanol, biological studies 110-27-0,
                          Searcher
                                             Shears
                                                       308-4994
```

Isopropyl myristate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical compns. and methods for improved delivery of hydrophobic therapeutic agents)

REFERENCE COUNT:

REFERENCE(S):

(1) Crooks; US 4572915 A 1986 CAPLUS (2) Muller; US 4719239 A 1988 CAPLUS (3) Schmidt; US 4727109 A 1988 CAPLUS

(4) Story; US 4944949 A 1990 CAPLUS

L20 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:573515 CAPLUS

DOCUMENT NUMBER:

133:182970

TITLE:

Matrix controlled release device for a

low-solubility drug

INVENTOR (S):

Appel, Leah Elizabeth; Friesen, Dwayne Thomas; Curatolo, William John; Nightingale, James Alan

Schriver; Thombre, Avinash Govind

PATENT ASSIGNEE(S):

Pfizer Products Inc., USA

SOURCE:

Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1027887	A 2	20000816	EP 2000-300546	20000126
ED 1027887	Δ3	20010228		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,

PT, IE, SI, LT, LV, FI, RO

A2 20000822 JP 2000-33446 20000210 JP 2000229888 US 1999-119400 19990210 PRIORITY APPLN. INFO.:

Disclosed are a controlled release dosage form for a low soly. drug that is a spray-dried or spray-coated amorphous solid dispersion of the drug in an ionizable cellulosic polymer matrix that is in turn incorporated into a secondary erodible polymeric matrix and a method of treating a disease or disorder comprising administering such a dosage form. A batch of solid dispersion was prepd. by spray-drying a soln. contg. drug 5-chloro-1H-indole-2-carboxylic acid [(1S-benzyl-3-(3R,4S)-dihydroxypyrrolidin-1-yl)-(2R)-hydroxy-3oxypropyl]amide (water soly. 80 .mu.g/mL) in acetone together with hydroxypropyl Me cellulose acetate succinate. The resulting solid dispersion was mixed with hydroxypropyl Me cellulose, lactose, and Mg stearate. The mixt. was finally compressed to give tablets.

L20 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER:

2000:401637 CAPLUS

Searcher :

Shears 308-4994 DOCUMENT NUMBER:

133:34453

TITLE:

Prostaglandin-containing compositions and methods for amelioration of human female

sexual dysfunction

INVENTOR (S):

Yeager, James L.; Buyuktimkin, Nadir;

Buyuktimkin, Servet

PATENT ASSIGNEE(S):

Nexmed Holdings, Inc., USA

SOURCE:

PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT 1	PATENT NO.				KIND DATE				APPLICATION NO.						
WO 2000	 033825	A2 20000615				WO 1999-US29471 19991210						1210			
WO 2000	WO 2000033825			A3 20001116											
. W:	W: AE, AL,			AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	
	CU, CZ,	DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	
	IL, IN,	ıs,	JP,	ΚE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	
	LV, MA,			MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	
	SE, SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	UΑ,	ŪĠ,	UZ,	VN,	YU,	ZA,	
	ZW, AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM						
RW:	GH, GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	
	DE, DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	
	BJ, CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
PRIORITY APP	LN. INFO	. :					U	S 19	98-2	0896	5 :	1998	1210		
AB The inve	ention p	rovid	des a	a co	mpn.	sui	table	e fo	r to	pica:	l app	plica	ation	ı	
comprising: an effective amt. of a prostaglandin or a vasoactive												€			

AE agent, a polymer thickener, a lipophilic component, and a buffer system. The invention also provides methods of ameliorating female sexual dysfunction and increasing female sexual arousal and methods of enhancing female sexual response.

64-17-5, Ethanol, biological studies IT

110-27-0, Isopropyl myristate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (prostaglandin topical compns. for amelioration of human female sexual dysfunction)

L20 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:335384 CAPLUS

DOCUMENT NUMBER:

132:347490

TITLE:

Preparation of piperidines as ORL-1 receptor

ligands.

INVENTOR(S):

Barlocco, Daniela; Cignarella, Giorgio;

Giardina, Guiseppe Arnaldo Maria; Grugni, Mario;

Ronzoni, Silvano

Searcher

Shears

PATENT ASSIGNEE(S):

Smithkline Beecham Spa, Italy

SOURCE:

PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027815	A2	20000518	WO 1999-EP8706	19991110

A3 20001026

WO 2000027815

W: CA, JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,

NL, PT, SE

PRIORITY APPLN. INFO.:

IT 1998-MI2442

19981111

OTHER SOURCE(S):

MARPAT 132:347490

GI

Title compds. [I; X, Y = H, (substituted) aryl; m, n = 0-3, provided AB that m and n are not both 0; A = bond, (CR1R2)p; p = 1-3; R1, R2 = H, halo, (substituted) alkyl, alkoxy; B = C4-8 (unsatd.) (substituted) ring], were prepd. Thus, 2,3-dihydro-2-[(4phenylpiperidin-1-yl)carbonyl]-1H-indene was stirred with LiAlH4 in THF to give 2,3-dihydro-2-[(4-phenylpiperidin-1-yl)methyl]-1Hindene. The most potent I showed ORL-1 binding with Ki = 1-1000 nM.

L20 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:209867 CAPLUS

DOCUMENT NUMBER:

132:255983

TITLE:

A pharmaceutical solution for the treatment of

erectile dysfunction, prepared

by self-emulsifying drug delivery system

INVENTOR (S):

Lee, Sang Soon; Choi, Young Wook; Lee, Sang Kil;

Park, Gee Bae

PATENT ASSIGNEE(S):

Guju Pharm. Co., Ltd., S. Korea

SOURCE:

PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

Searcher

Shears

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> APPLICATION NO. DATE DATE PATENT NO. KIND -----_____ WO 1999-KR568 19990921 WO 2000016744 A1 20000330

W: CA, CN, DE, GB, JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,

NL, PT, SE

PRIORITY APPLN. INFO.:

KR 1998-39462

19980923 19990818

KR 1999-34157

The present invention relates to a new soln. prepn. contg. AB prostaglandin El for the treatment of erectile dysfunction, which is prepd. into a form of microemulsion preconc. This prepn. has a property, upon administration to a human body, of easily emulsifying or dispersing of itself and is of a system called a self-emulsifying drug delivery system, which is prepd. by dispersing or dissolving a drug into a liq. mixt. of oil, surfactant and cosurfactant. Prostaglandin El in an amt. equiv. to 1,000 .mu.g in the final urethral soln. of 0.1 mL was dissolved with stirring into ethanol and/or benzyl alc. and then, to this soln., Cremophor ELP and Labrafac CC was added to obtain a microemulsion comprising Cremophor ELP 6, ethanol 1, benzyl alc. 1, and Labrafac CC 0.89 mL.

64-17-5, Ethanol, biological studies IT

67-63-0, Isopropyl alcohol, biological studies

110-27-0, Isopropyl myristate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical soln. for treatment of erectile

dysfunction, prepd. by self-emulsifying drug delivery system)

REFERENCE COUNT:

REFERENCE(S):

- (1) G D Searle & Co; WO 9603113 A1 1996 CAPLUS
- (2) Harvard Scientific Corporation; WO 9722334 A1 1997 CAPLUS
 - (3) Popescu; US 5154930 A 1992 CAPLUS
 - (4) Vivus Inc; WO 9628142 A1 1996 CAPLUS

L20 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:68325 CAPLUS

DOCUMENT NUMBER:

132:113115

TITLE:

Transdermal patch and topical compositions

comprising propylnorapomorphine

INVENTOR (S):

Gessa, Gian Luigi

PATENT ASSIGNEE(S):

Unihart Corporation, Ire. PCT Int. Appl., 28 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

Searcher

Shears 308-4994 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. 20000127 WO 1999-IE66 19990715 WO 2000003698 A1 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG 20000207 AU 1999-46434 19990715 AU 9946434 A1 PRIORITY APPLN. INFO.: IT 1998-RM479 19980717 WO 1999-IE66 19990715

AB Pharmaceutical compn. comprising R(-) - or S(+) -propylnorapomorphine-HCl and/or derivs. thereof, together with antioxidants, solubilizers and permeation activators to facilitate the passage of the active principle through the skin. The pharmaceutical compn. is used in matrix of a transdermal patch for the treatment of disorders of the Central Nervous System and in particular for the treatment of sexual impotence, hemicrania, Parkinson's disease and psychotic disorders. The release of the active principle can be modified by varying the concns. of the solubilizers or of the permeation activators, or by providing a permeable membrane.

REFERENCE COUNT:

REFERENCE(S):

(1) Atkinson, A; JOURNAL OF MEDICINAL CHEMISTRY 1975, V18(10), P1000

(2) Banks, H; US 4126616 A 1978 CAPLUS

(3) Prographarm Lab; FR 2732896 A 1996 CAPLUS

L20 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1999:819198 CAPLUS

DOCUMENT NUMBER:

132:69324

TITLE:

A device and method for the treatment of

erectile dysfunction

INVENTOR(S):

Fotinos, Spiros

PATENT ASSIGNEE(S):

Lavipharm Laboratories, Inc., USA

SOURCE:

PCT Int. Appl., 25 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

Searcher :

Shears 308-4994

```
WO 1999-US14410 19990625
     WO 9966870
                      A1
                            19991229
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
             IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                           AU 1999-47200
                      A1 20000110
                                                            19990625
PRIORITY APPLN. INFO.:
                                           US 1998-90674
                                                            19980625
                                           WO 1999-US14410 19990625
     Devices and methods for treatment of erectile
AΒ
     dysfunction and methods of manuf. are provided. The devices
     include filmogenic polymers, a therapeutic agent, a permeation
     enhancer, and other ingredients. An embodiment of the
     device includes a backing and a release liner. Thus, a formulation
     contained PGE1 6.20, linoleic acid 6.00, PVP 42.40, PEG-400 45.40%.
     110-27-0, Isopropyl myristate
IT
     RL: DEV (Device component use); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (device and method for treatment of erectile
      dysfunction)
REFERENCE COUNT:
                         (1) Biotec Centre SA; FR 2748658 A 1997 CAPLUS
REFERENCE(S):
                         (2) Boeck Robert, F; US 4829991 A 1989
                         (3) Campbell Patricia, S; US 4867982 A 1989
                             CAPLUS
                         (4) Cohen Gerard G; EP 0266968 A 1988 CAPLUS
                         (5) Denzer Eric; US 5333621 A 1994
                         ALL CITATIONS AVAILABLE IN THE RE FORMAT
L20 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER:
                         1999:795994 CAPLUS
DOCUMENT NUMBER:
                         132:31744
TITLE:
                         Gene probes used for genetic profiling in
                         healthcare screening and planning
INVENTOR(S):
                         Roberts, Gareth Wyn
                         Genostic Pharma Ltd., UK
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl., 745 pp.
                         CODEN: PIXXD2
                         Patent
DOCUMENT TYPE:
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                           APPLICATION NO. DATE
     PATENT NO.
                      KIND DATE
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Searcher :

Shears

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19991216
                                           WO 1999-GB1780
                                                            19990604
     WO 9964627
                       A2
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,
             CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG,
             SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW,
             AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                           GB 1998-12099
                                                            19980606
                                           GB 1998-13291
                                                            19980620
                                           GB 1998-13611
                                                            19980624
                                           GB 1998-13835
                                                            19980627
                                           GB 1998-14110
                                                            19980701
                                           GB 1998-14580
                                                            19980707
                                           GB 1998-15438
                                                            19980716
                                           GB 1998-15574
                                                            19980718
                                           GB 1998-15576
                                                            19980718
                                           GB 1998-16085
                                                            19980724
                                           GB 1998-16086
                                                            19980724
                                           GB 1998-16921
                                                            19980805
                                           GB 1998-17097
                                                            19980807
                                           GB 1998-17200
                                                            19980808
                                           GB 1998-17632
                                                            19980814
                                           GB 1998-17943
                                                            19980819
     There is considerable evidence that significant factor underlying
AB
     the individual variability in response to disease, therapy and
     prognosis lies in a person's genetic make-up. There have been
     numerous examples relating that polymorphisms within a given gene
     can alter the functionality of the protein encoded by that gene thus
     leading to a variable physiol. response. In order to bring about
     the integration of genomics into medical practice and enable design
     and building of a technol. platform which will enable the everyday
     practice of mol. medicine a way must be invented for the DNA
     sequence data to be aligned with the identification of genes central
     to the induction, development, progression and outcome of disease or
     physiol. states of interest. According to the invention, the no. of
     genes and their configurations (mutations and polymorphisms) needed
     to be identified in order to provide crit. clin. information
     concerning individual prognosis is considerably less than the
     100,000 thought to comprise the human genome. The identification of
     the identity of the core group of genes enables the invention of a
     design for genetic profiling technologies which comprises of the
     identification of the core group of genes and their sequence
     variants required to provide a broad base of clin. prognostic
     information - "genostics". The "Genostic.RTM." profiling of
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patients and persons will radically enhance the ability of

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clinicians, healthcare professionals and other parties to plan and manage healthcare provision and the targeting of appropriate healthcare resources to those deemed most in need. The use of this invention could also lead to a host of new applications for such profiling technologies, such as identification of persons with particular work or environment related risk, selection of applicants for employment, training or specific opportunities or for the enhancing of the planning and organization of health services, education services and social services.

L20 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1999:783947 CAPLUS

DOCUMENT NUMBER:

132:26851

TITLE:

Topical pharmaceuticals containing vasodilators

and aloe extract for treatment of

erectile dysfunction

INVENTOR (S):

Kemp, Donald Jack; Cox, Donald P.

PATENT ASSIGNEE(S):

Jedco Products, Llc, USA

SOURCE:

PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

W: BR, CA, CN, IL, JP, KR

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.:

US 1998-90710 19980604

AB A pharmaceutical prepn. for topical application to the male sexual organ having as active ingredients at least one vasodilator from the group including glyceryl trinitrate, aminophylline, co-dergocrine mesylate, and isosorbide dinitrate and an aloe ext. together with adjuvants to enhance penetration and stability to form an aq. cream or gel packaged in unit dosage form. A cream contained aminophylline 2.50, isosorbide dinitrate 0.50, co-dergocrine mesylate 0.01, aloe ext. (10:1) 15.00, stearic acid 24.00, triethanolamine 2.20, silicone 344 2.00, cetyl alc. 1.00, Carbopol-940 0.80, glycerol 0.60, Me paraben 0.25, fragrance 0.15, and colors 0.05.

IT 110-27-0, Isopropyl myristate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (topical pharmaceuticals contg. vasodilators and aloe ext. for treatment of erectile dysfunction)

REFERENCE COUNT:

4

REFERENCE(S):

(1) Allen; US 5698589 A 1997 CAPLUS Searcher: Shears 308-4994

(2) Bae; US 5723138 A 1998 CAPLUS

(3) Gomaa, A; British Medical Journal 1996, V312, P1512 CAPLUS

(4) Hardy; US 4981686 A 1991

L20 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1999:549139 CAPLUS

DOCUMENT NUMBER:

131:179824

TITLE:

Use of thiadiazolo pyridine derivatives as

phosphodiesterase inhibitors

INVENTOR(S):

Friebe, Walter-Gunar; Schaumann, Wolfgang;

Wilhelms, Otto-Henning

PATENT ASSIGNEE(S):

Roche Diagnostics G.m.b.H., Germany

SOURCE:

PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                      KIND
                            DATE
                                           APPLICATION NO.
                      _ _ _ _
                            19990826
                                           WO 1999-EP886
                                                             19990211
     WO 9942089
                       A2
     WO 9942089
                       A3
                            19991014
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
             IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                            19990906
                                           AU 1999-29260
                                                             19990211
     AU 9929260
                       A1
     EP 1054669
                       A2
                            20001129
                                           EP 1999-910217
                                                             19990211
         R: DE, ES, FR, GB, IT
                                           EP 1998-102675
                                                             19980217
PRIORITY APPLN. INFO.:
                                           WO 1999-EP886
                                                             19990211
```

Use of thiadiazolo[4,3-a]pyridine derivs. and their physiol. AB tolerable salts for the treatment of diseases which are modulated by inhibition of phosphodiesterase(s) via cyclic nucleotides, in particular cyclic adenosine monophosphate, is described. Thiadiazolo[4,3-a]pyridine derivs. are useful for the prodn. of a medicament for the treatment of proliferative disorders, including tumors, lymphomas, leukemias, atherosclerosis and glomerulopathies, memory and/or learning disorders, impotence, obesity, ischemic or thrombolytic disorders, such as coronary or cerebral infarct, and serum disorders. 2-(4-Pyridinylimino)-3H-[1,2,4]thiadiazolo[4,3a]pyridine (I) was prepd. from Searcher Shears 308-4994 :

trichloromethanesulfenyl chloride and 2- and 4-aminopyridines and its anti-proliferative action was examd. in vitro. The compd. inhibited the activation of various types of leukocytes with the IC50 of 2.8-27 mg/L and it was well tolerated by small exptl. animals. An oral dose of 24 mg/kg I caused av. plasma levels of I over several hours after administration which exceeded the necessary in vitro concns. for significant inhibition of isolated human phosphodiesterase or for inhibition of secretion of, e.g. TNF.alpha. (in each case $2 \times 10-5 \text{ mol/L}$).

L20 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1999:537952 CAPLUS

DOCUMENT NUMBER:

131:161651

TITLE:

Composition and method for treating penile

erectile dysfunction

INVENTOR(S):

Samour, Carlos M.; Krauser, Scott F.; Gyurik,

Robert J.

PATENT ASSIGNEE(S):

MacroChem Corp., USA

SOURCE:

U.S., 9 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

					KIND DATE				APPLICATION NO.					DATE				
										-								
	US	5942	545		Α		1999	0824		US 1997-864130					19970527			
	WO	9965	303		A1 19991223				WO 1998-US12284					19980615				
		W:	AL,	AM,	AT,	AU,	AZ,	ВA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	
	DE, DK,			DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	GW,	HU,	ID,	IL,	IS,	JP,	
	KE, KG,			KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	
			MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	
			TJ,	TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	ΥŲ,	ZW,	AM,	AZ,	BY,	KG,	
			KZ,	MD,	RU,	ТJ,	TM						,					
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	
			ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	
			CG,	CI,	CM,	GA,	GN,	ML,	MR,	ΝE,	SN,	TD,	TG					
	AU	9878	387		A1 20000105			AU 1998-78387 19980615										
	EP	1026	947		A:	1 :	2000	0816		EP 1998-926585 19980615								
		R:	AT,	ΒE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	
			PT,	ΙE,	FI			*										
	JP	2000	51194	44	T	2	2000	0912		JI	P 19	99-52	26202	2	1998	0615		
	BR	9811	797		Α		2000	0926		BI	R 199	98-1	1797		1998	0615		
PRIORITY APPLN. INFO.:					. :					US	S 199	97-80	5413	0	1997	527		
											WO 1998-US12284					19980615		
AB	A c	compn	. fo	r the	e to	pica	l tra	ansde	sdermal administration to the penis is					sis				
		- d			_													

based on prostaglandin E1. The compn. is non-irritating and effective for relieving erectile impotence or other penile Shears 308-4994

erectile dysfunction. A penetration-enhancing effective amt. of a dioxolane, dioxane, or acetal skin penetration enhancing compd. in a pharmaceutically acceptable aq. alc. carrier is used to facilitate the penetration of the prostaglandin E1 active ingredient through the skin. Phentolamine or prazosin may be used in combination with prostaglandin El. An aq. topical gel contained prostaglandin E1 0.1, 2-n-nonyl-1,3-dioxolane 5, hydroxypropyl cellulose 1, and ethanol/water (70:30) q.s. to 100 %.

64-17-5, Ethanol, biological studies TΤ

67-63-0, Isopropyl alcohol, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (prostaglandin E1-based topical compns. for administration to penis for treatment of erectile impotence)

REFERENCE COUNT:

49

REFERENCE(S):

- (5) Anon; CZ 277720 1993 CAPLUS
- (10) Bellamy; US 5451609 1995 CAPLUS
- (11) Birnbaum; US 4311707 1982 CAPLUS
- (12) Buhl; US 5488059 1996 CAPLUS
- (13) Cavallini; US 5336678 1994 CAPLUS ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1999:279736 CAPLUS

DOCUMENT NUMBER:

130:296693

TITLE:

Preparation of pyrazolo[4,3-d]pyrimidine

derivatives as inhibitors of phosphodiesterase 1 and pharmaceutical compositions containing them Bell, Andrew Simon; Terrett, Nicholas Kenneth

INVENTOR(S): PATENT ASSIGNEE(S):

Pfizer Inc., USA; Pfizer Limited

SOURCE:

Eur. Pat. Appl., 78 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
EP 911333	A1 19990428	EP 1998-308177	19981008
R: AT, B	E, CH, DE, DK, ES,	FR, GB, GR, IT, LI, LU,	NL, SE, MC,
PT, I	E, SI, LT, LV, FI,	RO	
CA 2251453	AA 19990424	CA 1998-2251453	19981023
JP 11217383	A2 19990810	JP 1998-304076	19981026
BR 9804214	A 19991214	BR 1998-4214	19981026
PRIORITY APPLN. IN	FO.:	GB 1997-22520	19971024
OTHER SOURCE(S):	MARPAT 130:	296693	
OT.		•	

Searcher

308-4994 Shears

Et

The title compds. [I; Ra = C2-6 alkyl; R1 = H, C1-4 alkyl; each of R2 and R3 is independently selected from H and C1-4 alkyl, or R2 is H or C1-4 alkyl and R3 is OH, C2-4 alkanoyloxy or fluoro, or R2 and R3 when taken together represent C2-6 alkylene, or R2 and R3 when taken together with the carbon atom to which they are attached represent a carbonyl group; Ar = (un) substituted Ph] are prepd. and claimed. These compds. are inhibitors of at least Ca/CAM-dependent phosphodiesterase 1 (PDE1). Some of the compds. are selective and potent inhibitors of Ca/CAM-dependent PDE1. They are useful for the treatment of stroke, dementia, memory enhancement, atherosclerosis, urge incontinence, hypertension, angina pectoris, congestive heart failure, myocardial infarction or restenosis. They are also used for the treatment of male erectile dysfunction, female sexual dysfunction, premature labour,

II

Me

dysmenorrhoea, benign prostatic hyperplasia (BPH), bladder outlet obstruction, incontinence, stable, unstable and variant (Prinzmetal) angina, hypertension, pulmonary hypertension, congestive heart failure, atherosclerosis, stroke, peripheral vascular disease, conditions of reduced blood vessel patency, chronic asthma, bronchitis, allergic asthma, allergic rhinitis, glaucoma or diseases characterized by disorders of gut motility. Thus,

N-ethyl-N-{4-[(1-methyl-7-oxo-3-propyl-6,7-dihydro-1H-pyrazolo [4,3-d]pyrimidin-5-yl)methyl]phenyl}acetamide was reduced by LiAlH4 in THF under reflux to give the title compd. (II). II in vitro showed IC50 of 38 nM, 1.99, 3.94, 23, 2.49, and 2.03 .mu.M against human cardiac ventricle, human corpus cavernosum, human corpus cavernosum, rat kidney, human corpus cavernosum, and bovine Searcher: Shears 308-4994

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retinauman cardiac PDE1, resp.
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64-17-5, Ethanol, reactions IT

RL: RCT (Reactant)

(prepn. of pyrazolo[4,3-d]pyrimidine derivs. as inhibitors of phosphodiesterase 1 for treatment of diseases)

REFERENCE COUNT:

1

REFERENCE(S):

(1) Warner-Lambert; EP 0201188 A 1986 CAPLUS

L20 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1998:793038 CAPLUS

DOCUMENT NUMBER:

130:20605

TITLE:

New BPC peptide salts with organo-protective

activity, the process for their preparation and

APPLICATION NO. DATE

their use in therapy

INVENTOR (S):

Sikiric, Predrag; Petek, Marijan; Seiwerth, Sven; Turkovic, Branko; Grabarevic, Zeljko; Rotkvic, Ivo; Mise, Stjepan; Duvnjak, Marko;

Udovicic, Ivan

PATENT ASSIGNEE(S):

Croatia

SOURCE:

PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

KIND DATE

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

FA	TEMI :	NO.				DAIL			77.		CHIL	014 144	٠.	D1111		
WO	9852	973		A:	1	1998	1126		W	19	98-E	P295:	3	1998	0520	
	W:	AU,	BA,	BG,	BR,	CA,	CN,	CU,	CZ,	EE,	GE,	HU,	ID,	IL,	JP,	KR,
		MX,	NO,	NZ,	PL,	SK,	TR,	UA,	US,	UZ,	YU,	AM,	AZ,	BY,	KG,	KZ,
		MD,	RU,	TJ,	TM											
	RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,
		NL,	PT,	SE												
AU	9879	141		A	1	1998	1211		A	J 19	98-7	9141		1998	0520	
EP	9833	00		A	1	2000	0308		E	P 19	98-9	2934	5	1998	0520	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	NL,	SE,	PT,	ΙE,
		FI														
BR	9809	457		Α		2000	0620		B	R 19	98-9	457		1998	0520	
JP	2000	5155	58	T	2	2000	1121		J	P 19	98-5	4994	8	1998	0520	
МО	9905	692		Α		2000	0124		N	0 19	99-5	692		1999	1119	
PRIORIT	Y APP	LN.	INFO	. :					E	P 19	97-1	0838	4	1997	0523	
									W	0 19	98-E	P295	3	1998	0520	
OWNED C	OTTOOR	(c).			MAD	ייית	120.	2060	E							

OTHER SOURCE(S): MARPAT 130:20605

The present invention discloses new pharmaceutical compns. useful for the treatment of various human and animal diseases. These pharmaceutical compns. contain one or more salts of BPC (Body Protection Compd.) peptide comprising 8-15 amino acid residues or analogs thereof. The cations of the salts are derived from inorg.

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308-4994

Searcher

or org. bases. Thus, the prepn. of monosodium salt of BPC157 (NaBPC157) and its formulation into capsules contg. trehalose and soln. contg. glycerol are presented. Antiulcer, vascular endothelium protective, anti-angiogenesis, anti-inflammatory, free radical scavenging, cytoprotective and organ protective, cardioprotectant, antiarrhythmic, anti-parkinsonian, antihypertensive, antitumor, analgesic, anti-ischemic, etc. activities of NaBPC157 are demonstrated in animal models.

IT 64-17-5, Ethanol, biological studies

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)

(injuries from; prepn. and therapeutic uses of salts of BPC fragments with organo-protective activity)

REFERENCE COUNT:

2

REFERENCE(S):

- (1) Pliva Pharm & Chem Works; WO 9411394 A 1994 CAPLUS
- (2) Sikiric Predrag; EP 0572688 A 1993 CAPLUS

L20 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1998:1313 CAPLUS

DOCUMENT NUMBER:

128:93231

TITLE:

SOURCE:

Water-based topical cream containing

nitroglycerin

INVENTOR (S):

Allen, Michael P.

PATENT ASSIGNEE(S):

International Medical Innovations, Inc., USA

U.S., 6 pp. Cont.-in-part of U.S. Ser. No.

69,409, abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PAT	ENT 1	NO.		KI	ND 1	DATE			A.	PPLI	CATIO	ON NO	ο.	DATE		
									-							
US	5698	589		A	,	1997	1216		U	3 19	96-59	94304	4	19960	0130	
WO	9627	372		A:	1 :	1996	912		W	199	96-U	5298	9	19960	0305	
	W:	AL,	AM,	AT,	AU,	AZ,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,
		EE,	ES,	FI,	GB,	GE,	HU,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LK,	LR,
		LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,
		RU,	SD,	SE,	SG,	SI										
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,
		GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,
		GN														
CA	2214	418		A	A	1996	0912		C	A 19	96-2	2144	18	1996	0305	
AU	9653	025		A	1	1996	0923		A	J 19	96-5	3025		1996	0305	
	7013															
EP	8148	00		A	1	1998	0107		E	P 19	96-9	0957	7	1996	0305	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,
					Se	arch	er	:		She	ars	3	08-4	994		

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PT, IE, FI
                            19980113
                                            BR 1996-7974
                                                              19960305
     BR 9607974
                                            CN 1996-192273
                                                              19960305
     CN 1177294
                            19980325
                       Α
                                            JP 1996-527007
                                                              19960305
     JP 11501629
                       T2
                             19990209
                            19971027
                                            NO 1997-4075
                                                              19970904
     NO 9704075
                       Α
PRIORITY APPLN. INFO.:
                                            US 1993-69409
                                                              19930601
                                            US 1995-398872
                                                              19950306
                                            US 1996-594304
                                                              19960130
                                            WO 1996-US2989
                                                              19960305
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A stable, uniform, water-based topical cream contg. nitroglycerin, a AB penetration enhancer, water, a thickener and an emulsifier is provided. The method of prepg. the cream and the use of the cream for treating male erectile dysfunction or female anorgasmia are described. The present invention also relates to treating patients suffering from microvascular diseases or from injured tissues. Thus, a cream contained water 82.60, nitroglycerin 1.50, propylene glycol 3.00, glycerin 5.00, iso-Pr palmitate 1.00, PEG-8000 0.50, Carbopol-940 1.50, PEG stearate 0.50, Brij-78 1.00, triethanolamine 2.00, sodium borate 0.30, BHT 0.02, methylparaben 0.02, and flavoring agents 0.04%.

IT 110-27-0, Isopropyl myristate

> RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (water-based topical cream contg. nitroglycerin)

L20 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1997:752830 CAPLUS

DOCUMENT NUMBER:

128:39564

TITLE:

Pharmaceutical compositions containing

.alpha.-blockers for treating erectile

dysfunction

INVENTOR(S):

Costa, Pierre; Bromet, Norbert; Bromet Petit,

Marguerite; Besse, Jerome

PATENT ASSIGNEE(S):

Biotec Centre S.A., Fr.; Mission S.C.; Costa,

Pierre; Bromet, Norbert; Bromet-Petit,

Marguerite; Besse, Jerome

SOURCE:

PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	ENT	NO.		KI	ND I	DATE			A.	PPLI	CATI	ои ис	o. :	DATE		
									-							
WO	9742	946		A	1 :	1997	1120		W	0 19	97-F	R83 ₇		1997	0513	
	W:	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
		DE,	DK,	EE,	ES,	FI,	GB,	GE,	HU,	IL,	IS,	JP,	KE,	KG,	KP,	KR,
		KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,
		NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	ТJ,	TM,	TR,	TT,	UA,
					Se	arch	er	:		She	ars	3	08-4	994		

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UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR,
             GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
                            19971121
                                            FR 1996-6105
                                                             19960515
     FR 2748658
                       A1
     FR 2748658
                       B1
                            20000818
                                           AU 1997-29662
                                                             19970513
     AU 9729662
                       A1
                            19971205
                                           EP 1997-924075
                                                             19970513
     EP 906093
                       A1
                            19990407
         R: ES, FR, GR, IT
                            19990811
                                           CN 1997-196485
                                                             19970513
     CN 1225581
                       Α
                                            FR 1996-6105
                                                             19960515
PRIORITY APPLN. INFO.:
                                           WO 1997-FR837
                                                             19970513
     The use of one or more .alpha.-blocker compds., e.g. moxisylyte
AB
     and/or derivs. or metabolites thereof such as deacetyl moxisylyte
     (DAM) or monodemethyl deacetyl moxisylyte (MDAM), for treating
     erectile dysfunction in mammals, particularly
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erectile dysfunction in mammals, particularly humans, by transmucosal delivery via the glans penis, is disclosed. A pharmaceutical gel contained DAM 2.00, propylene glycol 18.00, Transcutol 13.00, hydroxypropyl Me cellulose 0.30, and sodium Me parahydroxybenzoate 0.05 g. Thus, 0.5 mL of the above gel was applied on the glans penis mucosa of patients for about 1 min to observe rigid erection for 7 min.

IT 110-27-0, Isopropyl myristate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical compns. contg. .alpha.-blockers for treating erectile dysfunction)

L20 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1997:557633 CAPLUS

DOCUMENT NUMBER:

127:239118

TITLE:

Drug delivery systems containing ester

sunscreens and penetration enhancers

INVENTOR(S):

Reed, Barry Leonard; Morgan, Timothy Matthias;

Finnin, Barrie Charles

PATENT ASSIGNEE(S):

Monash University, Australia; Reed, Barry Leonard; Morgan, Timothy Matthias; Finnin,

Barrie Charles

SOURCE:

PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 9729735	A1 19970821	WO 1997-AU91	19970219
W: AL, AM,	AT, AU, AZ, BA,	BB, BG, BR, BY, CA, CH	, CN, CU, CZ,
DE, DK,	EE, ES, FI, GB,	GE, HU, IL, IS, JP, KE	, KG, KP, KR,
	Searcher	: Shears 308-4	4994

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KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,
             NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA,
             UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
             GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
             GN, ML, MR, NE, SN, TD, TG
                       A1
                            19970902
                                           AU 1997-17134
                                                            19970219
     AU 9717134
                            19990701
     AU 706967
                       B2
                       A1
                            19990317
                                           EP 1997-904304
                                                            19970219
     EP 901368
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
             PT, IE, FI
     JP 2000504697
                       T2
                            20000418
                                          JP 1997-528834
                                                            19970219
                                           AU 1999-52589
                                                            19991001
     AU 9952589
                       A1
                            19991202
                                           AU 1996-8144
                                                            19960219
PRIORITY APPLN. INFO.:
                                           AU 1997-17134
                                                            19970219
                                           WO 1997-AU91
                                                            19970219
                         MARPAT 127:239118
OTHER SOURCE(S):
     A transdermal drug delivery system which comprises at least one
     physiol. active agent or prodrug thereof and at least one dermal
     penetration enhancer; characterized in that the dermal
     penetration enhancer is a safe skin-tolerant ester
     sunscreen. A non-occlusive, percutaneous or transdermal drug
     delivery system which comprises: (1) an effective amt. of at least
     one physiol. active agent or prodrug thereof; (2) at least one
     non-volatile dermal penetration enhancer; and (3) at least
     one volatile liq.; characterized in that the dermal penetration
     enhancer is adapted to transport the physiol. active agent
     across a dermal surface or mucosal membrane of an animal, including
     a human, when the volatile liq. evaps., to form a reservoir or depot
     of a mixt. comprising the penetration enhancer and the
     physiol. active agent or prodrug within said surface or membrane;
     and the dermal penetration enhancer is of low toxicity to,
     and is tolerated by, the dermal surface or mucosal membrane of the
     animal. The mean flux of 2% ketoprofen in 70% vol./vol. aq.
     ethanol through shed snakes kinetics in presence of 2% octyl
     salicylate in 70% vol./vol. aq. ethanol was 27.66 as
     compared to 2.58 .mu.g/cm2.h for azone. A transdermal aerosol
     contained 17.beta.-estradiol 2, octyl dimethyl-p-aminobenzoate 8,
     ethanol 69, and di-Me ether 30%.
ΙT
     64-17-5, Ethanol, biological studies
     67-63-0, Isopropanol, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study);
     USES (Uses)
        (drug delivery systems contg. ester sunscreens and penetration
      enhancers)
L20 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER:
                         1997:134796 CAPLUS
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126:144111

Searcher

308-4994

Shears

DOCUMENT NUMBER:

6-Substituted-1,2,3,4-tetrahydro-9H-carbazoles TITLE:

and 7-substituted-10H-cyclohepta[7,6-b]indoles

useful as 5-HT1F receptor agonists.

Flaugh, Michael Edward; Kiefer, Anton Daniel, INVENTOR (S):

Jr.; Walker, Clint Duane; Xu, Yao Chang

Lilly, Eli, and Co., USA PATENT ASSIGNEE(S):

SOURCE: Eur. Pat. Appl., 69 pp.

CODEN: EPXXDW

Patent DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 749962	A1	19961227	EP 1996-304612	19960621
EP 749962	B1	20001102		

R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE

Ι

II

CA 1996-2179678 19960621 CA 2179678 19961224 PRIORITY APPLN. INFO.: US 1995-1970 19950623

OTHER SOURCE(S): MARPAT 126:144111

GI

The invention provides novel agonists of the serotonin 5-HT1F AB receptor of formula I [R1, R2 = H, C1-4 alkyl, or CH2CH2-Aryl where Aryl = Ph, monohalophenyl, or 1-(C1-6 alkyl)-pyrazol-4-yl; X = OH, NHC(0)R3, NHC(:Y)NHR4, NHCOOR5, COR6 or NHSO2R7; R3 = C1-6 alkyl, C2-6 alkenyl, C3-8 cycloalkyl, Ph, substituted Ph, naphthyl, phenylalkyl, thienylmethyl, or heterocyclyl; R4 = C1-6 alkyl, Ph, dihalophenyl; R5 = C1-6 alkyl, C2-6 alkenyl, monohalobenzyl, monohalophenyl; R6 = C1-6 alkyl, Ph, monohalophenyl, Shears 308-4994

Searcher

monoalkoxyphenyl; R7 = NMe2, monohalophenyl, monoalkylphenyl; m = 0 or 1; n = 1 or 2; and Y = S or 0; and pharmaceutically acceptable salts and hydrates thereof, providing: X .noteq. OH when m = 0, n = 01, and R1 and R2 = H or C1-6 alkyl; and R3 .noteq. C1-6 alkyl when m = 0, n = 1, and R1 and R2 = H or C1-6 alkyl]. I are useful for a variety of purposes, and particularly in a method of inhibiting neuronal protein extravasation without causing vasoconstriction, i.e., for treatment of migraine. Approx. 115 synthetic examples and 11 formulation examples are given. For instance, 6-[(tert-butoxycarbonyl)amino]-3-(dimethylamino)-9-(triisopropylsily1)-1,2,3,4-tetrahydro-9H-carbazole (prepn. given) underwent a sequence of desilylation (83%), followed by removal of the BOC group and amidation with 4-FC6H4COCl (95%), to give title compd. II. Sumatriptan and 5 other compds. were assayed against various 5-HT receptor subtypes, and for inhibition of protein extravasation in rats. The highest correlation factor with extravasation (0.94) was found for the 5-HT1F receptor subtype. I are said to show high oral bioavailability, rapid onset, long duration of action, high potency, and high selectivity for the 1F subtype, avoiding complications due to vasoconstriction (no data).

L20 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1992:241942 CAPLUS

DOCUMENT NUMBER:

116:241942

TITLE:

Topical compositions containing a peripheral

vasodilator and an absorption enhancer

and methods for treatment of male

impotence

INVENTOR(S):

El-Rashidy, Ragab Pharmedic Co., USA

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

DNT: I

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9203141	A1	19920305	WO 1991-US6028	19910826

W: JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE

US 5256652 A 19931026 US 1990-573518 19900827 PRIORITY APPLN. INFO.: US 1990-573518 19900827

US 1987-119799 19871112

OTHER SOURCE(S): MARPAT 116:241942

GI

$$CH_2$$
 OR^3 R^{10} OR^4 R^5 I

The title compns. contain a peripheral vasodilator [e.g. an isoquinoline ether(I), where R1-R4 = C1-4 alkyl; R5 = H, Me] and an absorption enhancer (e.g. hydroxypropyl-.beta.-cyclodextrin), with optionally a vasoconstrictor and an .alpha.-receptor blocker, to enhance penis erection. The vasoconstrictor is slow acting and restricts blood flow from the penis after erection is achieved. Thus, a topical gel contained papaverine 1, hydroxypropyl-.beta.-cyclodextrin 3, EtOH 20, Methocel E4M 2, and water 74 wt.%.

(FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, JAPIO' ENTERED AT 14:58:59 ON 29 MAR 2001)

L21

17 S L19

L22

17 S L21 NOT L10

L23

17 DUP REM L22 (0 DUPLICATES REMOVED)

L23 ANSWER 1 OF 17

WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2001-102681 [11] WPIDS

DOC. NO. CPI:

C2001-030060

TITLE:

Preparation of sildenafil for formulation into troche with apomorphine by inclusion with e.g. cyclodextrin to enhance therapeutic efficacy and stability with reduced side-effects in treating

sexual disorder.

DERWENT CLASS:

B02

INVENTOR(S):

DING, D S

PATENT ASSIGNEE(S):

(BIOC-N) BIOCHEMICAL PHARM FACTORY ZHUHAI SPECIAL

COUNTRY COUNT:

86

PATENT INFORMATION:

PATENT	NO	KIND	DATE	WEEK	LA	PG

WO 2000078760 A1 20001228 (200111)* ZH 45

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC

MW MZ NL OA PT SD SE SL SZ TZ UG ZW W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI

GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI

SK SL TJ TM TR TT UA UG US UZ VN YU ZW

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 20000787	60 A1	WO 2000-CN145	20000608

PRIORITY APPLN. INFO: CN 1999-108194 19990621

AN 2001-102681 [11] WPIDS

AB WO 200078760 A UPAB: 20010224

NOVELTY - Sildanafil is prepared by reacting 5-(5-halosulfonyl-2-ethoxyphenyl)-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo(4,3-d)pyrimidin-7-one with 1-methylpyrazine salt before neutralization and washing to give a not less than 98% pure product.

DETAILED DESCRIPTION - Sildanafil is prepared by reacting 5-(5-halosulfonyl-2-ethoxyphenyl)-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo(4,3-d)pyrimidin-7-one (A) with 1-methylpyrazine salt (B) before neutralization and washing to give a not less than 98% pure product. INDEPENDENT CLAIMS are also included for

- (i) sildenafil-containing troche comprising the auxiliary of moist adhesion enhancer, acidic medium, lubricant, preservative, taste adjuster, pigment as well as sildenafil citrate, apomorphine hydrochloride and inclusion agent; and
- (ii) a method for producing the troche by inclusion of at least 1 of apomorphine hydrochloride and sildenafil citrate then mixing as well as grinding with the other ingredients and pressing into plates.

ACTIVITY - Selective inhibition on phosphodiesterase V; raising cGMP level; enhancing release of nitric oxide (NO); increasing blood flow to penis.

MECHANISM OF ACTION - Phosphodiesterase V inhibitor.

USE - The drug is for use in treating sexual disorder, e.g. penile erectile dysfunction

ADVANTAGE - Such compound formulation has enhanced therapeutic efficacy, reduced side-effects of bitter taste, nausea and lowering blood pressure, with rapid drug action and synergistic effect from both sildenafil and apomorphine.

Dwg.0/13

L23 ANSWER 2 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2001-049791 [06] WPIDS

DOC. NO. CPI:

C2001-013645

TITLE:

Topical compositions containing prostaglandin E1

are useful for treating female sexual

dysfunction, peripheral vascular disease,

male erectile dysfunction and

Searcher

Shears

308-4994

for enhancing female sexual responsiveness.

DERWENT CLASS:

A96 B05

INVENTOR (S):

BUYUKTIMKIN, N; BUYUKTIMKIN, S; YEAGER, J L

PATENT ASSIGNEE(S):

(NEXM-N) NEXMED HOLDINGS INC

COUNTRY COUNT:

86

PATENT INFORMATION:

PATENT NO	O KIND	DATE	WEEK	LA	PG

WO 2000069469 A1 20001123 (200106) * EN 32

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

AU 9939891 A 20001205 (200113)

APPLICATION DETAILS:

	IND		PLICATION	DATE
WO 2000069469			1999-US10596	
AU 9939891	A	AU	1999-39891	19990513
	,	WO	1999-US10596	19990513

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AII 9939891	Δ	Based on	WO 200069469

PRIORITY APPLN. INFO: WO 1999-US10596 19990513

AN 2001-049791 [06] WPIDS

AB WO 200069469 A UPAB: 20010126

NOVELTY - A topical composition comprises prostaglandin E1, a skin penetration enhancer (selected from an alkyl-2-(N,N-disubstituted amino)-alkanoate (I) or (N,N-disubstituted)-alkanol alkanoate (II)), a polysaccharide gum or polyacrylic acid polymer, a lipophilic compound (1-8C alcohol and/or 8-30C aliphatic ester) and an acidic buffer

USE - The composition is useful for treating female sexual dysfunction, peripheral vascular disease, male erectile dysfunction and for enhancing female sexual responsiveness (all claimed).

The compositions may be used for the treatment of Raynaud's phenomenon/disease, Buerger's disease, livedo reticularis, acrocyanosis, atherosclerosis, frostbite, vitiligo, alopecia reata, Searcher: Shears 308-4994

impending gangrene and other ischemic disorders. The ability of the compositions to increase peripheral circulation makes them useful for enhancing the rate of healing of wounds, ulcers, infections, and proliferative and inflammatory skin lesions including atopic dermatitis, acne and psoriasis; to treat impotency, or to increase the rate of absorption of pharmaceuticals. They may also be used to improve skin color and to promote blush.

ADVANTAGE - The transdermal formulations avoid the low bioavailability and rapid chemical decomposition associated with other delivery methods.

Dwg.0/2

L23 ANSWER 3 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-532965 [48] WPIDS

DOC. NO. NON-CPI:

N2000-394216

DOC. NO. CPI:

C2000-158834

TITLE:

Formulation for intra-oral delivery of

pharmaceutical agent(s), especially insulin in diabetic patients and fentanyl citrate for chronic

pain management, comprises agent mixed with

oral-absorption enhancer in

carrier-solvent.

DERWENT CLASS:

A96 B05 B07 C03 C07 P34

INVENTOR(S):

LIBBEY, M A; MCCOY, R; WILLIAMS, R O

PATENT ASSIGNEE(S):

(LIBB-I) LIBBEY M A; (MCCO-I) MCCOY R; (MQSM-N) MQS

INC; (WILL-I) WILLIAMS R O

COUNTRY COUNT:

89

PATENT INFORMATION:

PATENT	NO	KIND	DATE	WEEK	LA F	G

WO 2000047203 A1 20000817 (200048)* EN 25

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2000028791 A 20000829 (200062)

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION	DATE
WO 2000047203 A1	WO 2000-US3555	20000211
AU 2000028791 A	AU 2000-28791	20000211

FILING DETAILS:

PATENT NO KIND

PATENT NO

AU 2000028791 A Based on

WO 200047203

PRIORITY APPLN. INFO: US 1999-119923 19990212

AN 2000-532965 [48] WPIDS

AB WO 200047203 A UPAB: 20001001

NOVELTY - Formulation for intra-oral delivery of at least one pharmaceutical agent (I) to a patient comprises (I) mixed with an oral-absorption enhancer (II) in a carrier-solvent (III). (II) is adapted to modify a surface membrane of the patient's intra-oral cavity such that absorption of (I) through the surface membrane is initiated or increased.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (A) a formulation for intra-oral delivery of at least one (I) to a patient, the formulation comprising (I) mixed with (II), a formulation surfactant, ethanol, and a propellant and where, (II) is adapted to increase bioavailability of (I) through the patient's intra-oral cavity and the formulation surfactant is adapted to reduce (I) to a droplet size of less than 200 microns, and the propellant is adapted to deliver reduced (I) to the mucosa of the patient's intra-oral cavity;
- (B) a formulation for intra-oral delivery of insulin to a patient comprising 0.1-10 wt.% insulin, 0.1-10 wt.% (II), 0.1-10% of a dispersing aid or miscibility agent, 5-50 wt.% (III), and a propellant, where (II) is adapted to modify a surface membrane of the patient's intra-oral cavity such that absorption of the insulin through the surface membrane is initiated or increased;
- (C) a system adapted for intra-oral delivery of at least one (I) to a patient comprising (I) mixed with a surfactant or (II) in (III), and a mechanical assembly for dispensing the formulation to the mucosa of the intra-oral cavity of the patient, where the mechanical assembly includes an aerosolizing device and the formulation is disposed within the mechanical assembly and emitted from there in a spray caused by the aerosolizing device;
- (D) a system for treating a patient with (I) comprising: (i) a formulation comprising (I) being stabilized until ready for administration to the patient and one or more compounds adapted to enhance absorption through the mucosa of the patient's intra-oral cavity via a spray caused by an aerosolizing device; and (ii) a mechanical assembly for dispensing the formulation to the mucosa of the intra-oral cavity, the mechanical assembly having an aerosolizing device for reducing the formulation to a spray;
- (E) a method for administering (I) to a patient comprising providing the system in (D) and spraying the formulation into the patient's intra-oral cavity.

MECHANISM OF ACTION - (II) increases bioavailability through the intra-oral cavity and the formulation further comprises a Searcher: Shears 308-4994 surfactant for reducing the pharmaceutical agent to droplet size of 10-200 microns (claimed).

USE - The formulation is especially useful for administering therapeutic agents with poor aqueous solubility or which are not easily absorbed through, or not effective when administered through the gastrointestinal tract. These include small and large molecule proteins and peptides including calcitonin, human growth factors and insulin. The formulation is particularly useful for administering insulin in diabetic patients and for administering the opioid analgesic fentanyl used in chronic pain management, particularly fentanyl citrate used in patients suffering from pain associated with cancer and chemotherapy. The formulation may also be used in treatment of male hypogonadism, impotence and osteoporosis. The patient is preferably a non-human animal (claimed).

ADVANTAGE - The formulation enables the delivery of pharmaceutical agents through the mucosa of the intra-oral cavity. The formulation provides an efficient and convenient drug delivery method for many pharmaceutical agents that results in rapid onset of therapeutic action, avoids the hepatic first pass effect, and reduces the amount of drug needed for an effective dose, thus reducing cost. Also, a non-invasive alternative is provided to pulmonary, nasal or gastrointestinal delivery of pharmaceutical agents, and absorption is increased and accelerated. The pharmaceutical agent is directly targeted to the intra-oral delivery site of absorption by the delivery system which combines appropriate droplet size, strength of dose and absorption enhancers formulated to provide optimum bioavailability and onset of action. The method of delivery is easier, less inconvenient, and/or less-embarrassing than other methods of administration (e.g. injection delivery of insulin), thus increasing patient compliance. A further benefit of oral versus inhalation administration is that oral spray delivery does not have the same long-term toxicological effects as when inhaling the compounds. The formulation are advantageous in delivering pharmaceutical agent to animals which are often resistant to traditional means of drug delivery.

A bioavailability study was performed in a rat model using a formulation containing 30 units of bovine insulin and prepared as described in the example but using 1% of the insulin. The formulation produced a 45% decrease in blood glucose over 90 minutes post administration and the decrease in blood glucose following administration was linear up to 90 minutes post dosing. Control formulations were administered and no decrease in blood glucose was observed.

Dwg.0/4

L23 ANSWER 4 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER: 2000-423200 [36] WPIDS

DOC. NO. CPI: C2000-128061

TITLE:

Compositions suitable for topical application of

female sexual arousal disorder

comprise vasoactive agent, polymer thickener, lipophilic component, penetration enhancer

and buffer system.

DERWENT CLASS:

A14 A96 B05

INVENTOR(S):

BUYUKTIMKIN, N; BUYUKTIMKIN, S; YEAGER, J L

PATENT ASSIGNEE(S):

(NEXM-N) NEXMED HOLDINGS INC

COUNTRY COUNT:

88

PATENT INFORMATION:

PATENT	NO	KIND	DATE	WEEK	LA	PG

WO 2000033825 A2 20000615 (200036) * EN 63

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW

AU 2000023586 A 20000626 (200045)

APPLICATION DETAILS:

		KIND		PLICATION	DATE
	200003382			1999-US29471	19991210
AU	2000023586		ΑU	2000-23586	19991210

FILING DETAILS:

PATENT NO	KIND	•	PAT	ENT NO
AU 200002358	36 A	Based on	WO	200033825

19981210

PRIORITY APPLN. INFO: US 1998-208965

AN 2000-423200 [36] WPIDS

AB WO 200033825 A UPAB: 20000801

NOVELTY - Compositions with a pH of 3.0-7.4 suitable for topical application comprising an effective amount of vasoactive agent, polymer thickener, lipophilic component and penetration enhancer, and a buffer system.

DETAILED DESCRIPTION - Compositions with a pH of 3.0-7.4 suitable for topical application comprising an effective amount of vasoactive agent, polymer thickener, lipophilic component and penetration enhancer, and a buffer system. The penetration enhancer is ethanol, propylene glycol, glycerol, ethyl laurate, isopropyl palmitate, isopropyl myristate, 1-dodecylazacycloheptane-2-one, dioxolanes,

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Shears

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macrocyclic ketones, oxazoledones, alkyl-2-(N,N-di-substituted amino)alkanoates and/or (N,N-di-substituted amino)alkanol alkanoates a and mixtures thereof.

An INDEPENDENT CLAIM is also included for articles of manufacture comprising:

- (a) a container without a closure;
- (b) a composition suitable for topical application comprising prostaglandin E1 (PGE1); and
- (c) a label that provides instructions for use in human females.

ACTIVITY - Female sexual arousal enhancing; Vasotropic. The efficacy and safety of placebo and three doses of topical PGE1 cream were evaluated in female subjects (n = 8) with female sexual dysfunction in a single-center, single blind, escalating dose, placebo-controlled, pilot study. The compositions comprised Noveon AA-1 (RTM: polycarbophil), ethanol, propylene glycol, ethyl laurate, 0.005M pH 5.5 buffer, 1M sodium hydroxide and PGE1 (0.05, 0.1, 0.2%). Efficacy was assessed by vaginal photoplethysmography during visual sexual stimulation and by the use of quantitative patient questionnaires and diaries. Visit 1 was used for enrollment, at visit 2, subjects received a single-blinded, intravaginal dose of placebo, at visit 3 they received a single-blinded dose of PGE1 cream (0.5 mg) applied to the labia, clitoris and vulva, at visit 4 they received a single-blinded dose of PGE1 cream (1.0 mg) applied to the labia, clitoris and vulva and at visit 5 they received a single-blinded dose of PGE1 cream (2.0 mg) applied to the labia, clitoris and vulva. The graphs of maximum responses showed increased responses relative to baseline in all but one subject. The responses to questions relating to subjective arousal and pleasurable feelings were near the p=0.05 level if the 0.05% and 0.2% dose levels were compared. Minimal adverse events and comparison of vital signs indicated that the medication was well tolerated.

MECHANISM OF ACTION - None given.

USE - The compositions are used in the topical treatment of female sexual arousal disorder and to enhance female sexual response (claimed). The compositions are used to modulate the arousal, excitation and plateau phases of the female sexual response on demand. The compositions are used to deliver vasoactive compounds chosen from PGE1 and/or phentolamine (claimed), nitrates (nitroglycerin, isosorbide dinitrate, erythrityl tetranitrate, amyl nitrate, sodium nitroprusside, molsidomine, linsidomine chlorhydrate, S-nitroso-N-acetyl-d,l-penicillamine), long- and short-acting alpha-blockers (phenoxybenzamine, dibenamine, doxazosin, terazosin, phentolamine, tolazoline, prazosin, trimazosin, alfuzosin, tamsulosin, indoramin), ergot alkaloids (ergotamine and its analogs - acetergamine, brazergoline, bromerguride, cianergoline, delorgotrile, disulergine, ergonovine maleate, ergotamine tartrate, etisulergine, lergotrile, lysergide, Searcher Shears

mesulergine, metergoline, metergotamine, nicergoline, pergolide, propisergide, proterguride, terguride), antihypertensives (diazoxide, hydralazine, minoxidil), vasodilators (nimodipine, pinacidil, cyclandelate, dipyridamole, isoxsuprine), chlorpromazine, haloperidol, yohimbine, trazodone and vasoactive intestinal peptides.

ADVANTAGE - The pH of the compositions minimizes irritation of skin and mucous membranes. $\ensuremath{\text{Dwg.0/10}}$

L23 ANSWER 5 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-283418 [24] WPIDS

DOC. NO. CPI:

C2000-085537

TITLE:

Self-emulsifying composition useful for treating

erectile dysfunction, comprises

prostaglandin E1, and a liquid mixture of oil,

surfactant and cosurfactant.

DERWENT CLASS:

B05

INVENTOR(S):

CHOI, Y W; LEE, S G; LEE, S S; PARK, G B; LEE, S K

PATENT ASSIGNEE(S): (GUJU-N) GUJU PHARM JH; (GUJU-N) GUJU PHARM CO LTD

COUNTRY COUNT:

23

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2000016744 A1 20000330 (200024)* EN 38

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: CA CN DE GB JP US

KR 2000022734 A 20000425 (200107)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 20000167	44 A1	WO 1999-KR568	19990921
KR 20000227	34 A	KR 1999-34157	19990818

PRIORITY APPLN. INFO: KR 1999-34157 19990818; KR 1998-39462

19980923

AN 2000-283418 [24] WPIDS

AB WO 200016744 A UPAB: 20000522

NOVELTY - Self-emulsifying composition for the treatment of erectile dysfunction comprising one or more lower alcohols, an oil, and a carrier medium containing a surfactant and prostaglandin E1, is new.

DETAILED DESCRIPTION - New composition for the treatment of erectile dysfunction comprises:

(a) one or more lower **alcohols** selected from

Searcher: Shears 308-4994

ethanol, isopropyl alcohol and/or benzyl
alcohol;

- (b) an oil selected from natural oils, glycerides, polyglycolized glycerides, liquid paraffin (mineral oil) and isopropyl myristate; and
- (c) a carrier medium containing a surfactant with an HLB value of 10 or higher and prostaglandin E1 as active agent.

USE - The composition is used to treat **erectile** dysfunction.

ADVANTAGE - The composition has increased stability because prostaglandin E1 is dispersed in oil. It is easy to administer as it is a solution. Upon contact with moisture, the composition obtains viscosity or forms a gel thus increasing retention and rapid absorption of the active agent. Prior art stable formulations of prostaglandin E1 such as an injectable lyophilized powder or suppository have side effects such as pain on administration, tissue fibrosis or reluctance to insert a suppository into the urinary tract.

Dwg.0/12

L23 ANSWER 6 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-534430 [49] WPIDS

DOC. NO. CPI:

C2000-159467

TITLE:

Stable solid dispersion composition comprises a low-solubility drug e.g. prazosin, nifedipine or trimazosin and at least one polymer e.g. cellulose

acetate phthalate or cellulose acetate

terephthalate.

DERWENT CLASS:

A18 A96 B07

INVENTOR(S):

BABCOCK, W C; FRIESEN, D T; NIGHTINGALE, J A;

SHANKER, R M; NIGHTINGALE, J A S

PATENT ASSIGNEE(S):

(PFIZ) PFIZER PROD INC

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA PG
			`

EP 1027886 A2 20000816 (200049)* EN 39

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

CA 2298214 A1 20000810 (200052) EN

JP 2000229887 A 20000822 (200055) 45

APPLICATION DETAILS:

PA	TENT NO	KIND		API	PLICATION	DATE
EP	1027886	A2		EP	2000-300815	20000202
CA	2298214	A1		CA	2000-2298214	20000209
			Searcher	:	Shears	308-4994

JP 2000229887 A

JP 2000-32955 20000210

PRIORITY APPLN. INFO: US 1999-119401 19990210

AN 2000-534430 [49] WPIDS

AB EP 1027886 A UPAB: 20001006

NOVELTY - A solid dispersion composition formed by solvent processing, comprising a low-solubility drug and at least one polymer (P1) having a glass transition temperature of at least 100 deg. C measured at 50% relative humidity, where a major portion of the drug once dispersed is amorphous, is new.

USE - The composition is used to prepare solid dispersions of drugs such as antihypertensives e.g. prazosin, nifedipine, trimazosin and doxazosin, antianxiety agents, anticlotting agents, anticonvulsants, blood glucose-lowering agents, decongestants, antihistamines, antitussives, antineoplastics, beta blockers, antiinflammatories, antipsychotic agents, cognitive enhancers, cholesterol-reducing agents, antiobesity agents, autoimmune disorder agents, anti-impotence agents, antibacterial and antifungal agents, hypnotic agents, anti-Parkinsonism agents, anti-Alzheimer's disease agents, antibiotics, anti-depressants, and antiviral agents.

ADVANTAGE - The composition increases the bioavailability of the low-solubility drug by creating an enhanced concentration of the drug in an aqueous environment thus resulting in lower dosage of the drug. It has improved stability on storage due to the stabilizing effect of P1. Prior art solid dispersions show enhanced bioavailability of the low-solubility drug if administered shortly after preparation. Bioavailability decreases over time and the drug may revert to crystalline form on storage.

Dwg.0/3

L23 ANSWER 7 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-148595 [14] WPIDS

DOC. NO. CPI:

C2000-046733

TITLE:

Transmucosal therapeutic system useful for treating

male sexual impotence contains sildenafil

(Viagra).

DERWENT CLASS:

A96 B02

INVENTOR (S):

STRUENGMANN, T

PATENT ASSIGNEE(S):

(HEXA-N) HEXAL AG

COUNTRY COUNT:

82

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

DE 19834506 A1 20000203 (200014)*

/ WO 2000007597 A1 20000217 (200017) GE

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC Searcher : Shears 308-4994

MW NL OA PT SD SE SL SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

AU 9952898 A 20000228 (200030)

APPLICATION DETAILS:

PATENT	NO K	IND	API	PLICATION	DATE
DE 198	34506	A1	DE	1998-19834506	19980731
WO 200	0007597	A1	WO	1999-EP5465	19990730
AU 995	2898	A	ΑU	1999-52898	19990730

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AII 9952898	A Based on	WO 200007597

PRIORITY APPLN. INFO: DE 1998-19834506 19980731

AN 2000-148595 [14] WPIDS

AB DE 19834506 A UPAB: 20000320

NOVELTY - Transmucosal therapeutic system (TMTS) contains sildenafil (1-(4-ethoxy-3-(6,7-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo(4,3-d)pyrimidin-5-yl)phenylsulfonyl)-4-methylpiperazine, Viagra), or a sildenafil salt.

ACTIVITY - Anti-impotence.

MECHANISM OF ACTION - Cyclic guanosine monophosphate (cGMP)-specific phosphodiesterase type 5 inhibitor.

 $\ensuremath{\mathsf{USE}}$ - The TMTS is useful for treating male sexual $\ensuremath{\mathsf{impotence}}.$

ADVANTAGE - The TMTS avoids drawbacks associated with oral administration of sildenafil (side effects of which include headache, diarrhea, reddening of the face, nasal congestion and visual disturbance) and provides better patient compliance. Effective plasma sildenafil levels can be achieved rapidly after applying the TMTS to the skin, providing greater flexibility and spontaneity. Dwg.0/0

L23 ANSWER 8 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-162106 [15] WPIDS

DOC. NO. NON-CPI:

N2000-120927

DOC. NO. CPI:

C2000-050842

TITLE:

Transdermal therapeutic system useful for treating

male sexual impotence contains

sildenafil.

Searcher

Shears

308-4994

DERWENT CLASS:

A96 B05 B07 D22 P34

INVENTOR(S):

SPAETH, W; STRUENGMANN, T

PATENT ASSIGNEE(S):

(HEXA-N) HEXAL AG

COUNTRY COUNT:

1

PATENT INFORMATION:

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19834505	A1	DE 1998-19834505	19980731

PRIORITY APPLN. INFO: DE 1998-19834505 19980731

AN 2000-162106 [15] WPIDS

AB DE 19834505 A UPAB: 20000323

NOVELTY - Transdermal therapeutic system (TTS) contains sildenafil (1-(4-ethoxy-3-(6,7-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo(4,3-d)pyrimidin-5-yl)phenylsulfonyl)-4-methylpiperazine, i.e. Viagra (RTM)), or a sildenafil salt.

ACTIVITY - Anti-impotence.

MECHANISM OF ACTION - Cyclic guanosine monophosphate (cGMP)-specific phosphodiesterase type 5 inhibitor.

USE - The TTS is useful for treating male sexual impotence.

ADVANTAGE - The TTS avoids drawbacks associated with oral administration of sildenafil (side effects of which include headache, diarrhea, reddening of the face, nasal congestion and visual disturbance) and provides better patient compliance. Effective plasma sildenafil levels can be achieved rapidly after applying the TTS to the skin, providing greater flexibility and spontaneity. Dwg.0/0

L23 ANSWER 9 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-136942 [12] WPIDS

DOC. NO. NON-CPI:

N2000-102393

DOC. NO. CPI:

C2000-041993

TITLE:

Delivery device for treating erectile

dysfunction in a patient.

DERWENT CLASS:

A14 A25 A96 B05 B07 P32

INVENTOR (S):

FOTINOS, S

PATENT ASSIGNEE(S):

(LAVI-N) LAVIPHARM LAB INC

COUNTRY COUNT:

83

PATENT INFORMATION:

Searcher

Shears 308-4994

PATENT NO KIND DATE WEEK LA PG

WO 9966870 A1 19991229 (200012)* EN 25

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI
GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
SK SL TJ TM TR TT UA UG UZ VN YU ZW

AU 9947200 A 20000110 (200025)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9966870	A1	WO 1999-US14410	19990625
AU 9947200	A	AU 1999-47200	19990625

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9947200	A Based on	WO 9966870

PRIORITY APPLN. INFO: US 1998-90674 19980625

AN 2000-136942 [12] WPIDS

AB WO 9966870 A UPAB: 20000308

NOVELTY - A delivery device for treating **erectile dysfunction** in a patient comprises a disk formed from
filmogenic polymers, and having an effective dose of a therapeutic
agent suitable for reversing **erectile dysfunction**

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a method of treating erectile dysfunction, comprising selecting a disk formed from a filmogenic polymer and comprising one or more therapeutic agents selected from a vasodilator, a smooth-muscle relaxant, an antidepressant, a parasympathetic stimulator, a renin-angiotensin system inhibitor, a local anesthetic, an alpha blocker and a calcium channel blocker, and delivering the therapeutic agent to the penile surface over a period of time; and
- (2) a method or preparing a flexible disk for the treatment of erectile dysfunction, comprises preparing a composition having prostaglandin E1, Eutanol g16S, polyvinyl pyrrolidone (PVP) and PEG 400, and forming the composition to have a backing and a release layer.

ACTIVITY - Vasotropic.

MECHANISM OF ACTION - None given.

USE - The delivery device is used for treating **erectile** dysfunction in a patient

ADVANTAGE - The invention is simple, safe, convenient and painless to use, but not open to abuse and that delivers an effective therapeutic dose to the penis over a short period of time and is applied directly to the penis surface without using any additional support, and eventually enabling the patient to achieve normal sexual activity.

DESCRIPTION OF DRAWING(S) - The figure shows a graph of cumulative permeation of prostaglandin per unit area of stratum corneum as a function of time, in response to administration of the formulation.

Time in hours X-axis
Amount permeant in psi g/cm2 y-axis
Dwg.1/1

L23 ANSWER 10 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-126400 [11] WPIDS

DOC. NO. CPI:

C2000-038428

TITLE:

Topical cream or gel for treating impotence

or male erectile dysfunction

comprises vasodilator and aloe extract.

DERWENT CLASS:

B05 B07

INVENTOR(S):

COX, D P; KEMP, D J

PATENT ASSIGNEE(S):

(JEDC-N) JEDCO PROD LLC

COUNTRY COUNT:

24

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 9962533 A1 19991209 (200011) * EN 16

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: BR CA CN IL JP KR

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9962533	A1	WO 1999-US12081	19990602

PRIORITY APPLN. INFO: US 1998-90710 19980604

AN 2000-126400 [11] WPIDS

AB WO 9962533 A UPAB: 20000301

NOVELTY - Composition (I) comprises at least one vasodilator (A) and 5 wt.% or more aloe extract (B) together with adjuvants (C) to form an aqueous cream or gel.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included

Searcher : Shears 308-4994

for the preparation of (I) which comprises mixing active ingredients as a finely divided solid or as a solution, to form a solution or dispersion in an aqueous cream or gel composition.

USE - Used for treatment of male erectile dysfunction or impotence.

ADVANTAGE - (I) is thixotropic, minimizing the effect of temperature variations on viscosity and flow. (C) enhance penetration and stability. (I) causes the erectile tissue to engorge and enables normal sexual intercourse to take place without using dimethyl sulfoxide, which is deleterious to health.

Dwg.0/0

L23 ANSWER 11 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

2000-097054 [08] WPIDS

DOC. NO. CPI:

C2000-028106

TITLE:

Vasoactive compounds for treating erectile

dysfunction, particularly impotence

DERWENT CLASS:

A96 B02 B03 B05

INVENTOR (S):

SHOEMAKER, J D

PATENT ASSIGNEE(S):

(UYSL-N) UNIV SAINT LOUIS; (UYSL-N) UNIV SAINT

LOUIS HEALTH SERVICES CENT

COUNTRY COUNT:

86

PATENT INFORMATION:

PATENT N	O KIND	DATE	WEEK	LA	PG

WO 9960985 A2 19991202 (200008)* EN 36

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC

MW NL OA PT SD SE SL SZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK

SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

AU 9943141 A 19991213 (200020) US 6124461 A 20000926 (200051)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9960985	A2	WO 1999-US11589	19990526
AU 9943141	A	AU 1999-43141	19990526
US 6124461	A	US 1998-84849	19980526

FILING DETAILS:

PATENT NO	KIND	PATENT NO

AU 9943141 A Based on

WO 9960985

PRIORITY APPLN. INFO: US 1998-84849

19980526

AN 2000-097054 [08] WPIDS

AB

WO 9960985 A UPAB: 20000215

NOVELTY - A vasoactive composition comprises an organic cation in combination with an organic anion.

DETAILED DESCRIPTION - A vasoactive composition comprises an organic cation in combination with an organic anion. The organic cation is papaverine, phentolamine, sildenafil, hydralazine, ketanserin, delquamine, trazaodone, yohimbine, linsidomine, molsidomine, ifenprodil, piribedil, diprimidole, minoxidil, phenoxybenzamine, prazocin, terazocin, doxazocin, moxisylate, c-GMP-phosphodiesterase inhibitors and lidocaine and procaine free base, and the organic anion is alprostadil, prostaglandin E1, prostaglandin E0, 13, 14-dihydroprostaglandin E1, prostaglandin E2, eprostinol and nitroprusside. INDEPENDENT CLAIMS are included for:

- (A) a method of producing phentolamine alprostadilate;
- (B) a method of producing papaverine alprostadilate;
- (C) a method of formulating a composition for treating impotency comprises providing papaverine free base and a free acid, adding dilauroylphosphatidylcholine and polyethylene glycol to form stable vehicle, and combining the vehicle with the papaverine free base to form the composition;
 - (D) phentolamine alprostadilate of formula (I); and
 - (E) papaverine alprostadilate of formula (II).

ACTIVITY - Vasotropic.

MECHANISM OF ACTION - Alpha-adrenic blocker; phosphodiesterase inhibitor.

USE - The invention is used for treating erectile dysfunction, particularly, impotence.

ADVANTAGE - The compounds have the surprising property of high solubility in drug delivery vehicles and lipids, and can easily diffuse across transitional epithelia cells of the urethra. These compounds allow for self-adjusted dosage while preventing overdose problems. A composition comprising a complex of alprostadil with each of papaverine and phentolamine provides for lower effective doses of alprostadil than in other therapies. The invention has synergistic erection-inducing properties. The active ingredients of the composition are provided at lower concentrations than in the prior art. Consequently, even if compounds or compositions of the invention are self-administered beyond recommended dosage or schedule, the holding capacity of the human urethra will limit dosage to a safe amount.

Dwg.0/6

L23 ANSWER 12 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER: 1999-32

1999-326903 [27] WPIDS

DOC. NO. NON-CPI: N1999-245222

DOC. NO. CPI:

C1999-096673

TITLE:

Topical prostaglandin El compositions for prolonged treatment of e.g. peripheral vascular disease and

male impotency.

DERWENT CLASS:

A11 A14 A96 B05 B07 P32 P34

INVENTOR (S):

BUEYUEKTIMKIN, N; BUEYUEKTIMKIN, S; YEAGER, J;

BUYUKTIMKIN, N; BUYUKTIMKIN, S; YEAGER, J L

PATENT ASSIGNEE(S):

(NEXM-N) NEXMED HOLDINGS INC

COUNTRY COUNT:

28

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA

WO 9922714 A1 19990514 (199927)* EN 26

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: BR CA CN IL JP KR MX TR

US 6046244 A 20000404 (200024)

EP 1028708

A1 20000823 (200041) EN

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION DETAILS:

PA	TENT NO	KIND	APPLICATION	DATE
WO	9922714	A1	WO 1998-US23576	19981105
US	6046244	A	US 1997-964509	19971105
EP	1028708	A1	EP 1998-957603	19981105
			WO 1998-US23576	19981105

FILING DETAILS:

PATENT NO	KIND.	PATENT NO
EP 1028708	Al Based on	WO 9922714

Al Based on

WO 9922714

PRIORITY APPLN. INFO: US 1997-964509 19971105

1999-326903 [27] WPIDS AN

AB 9922714 A UPAB: 19990714

NOVELTY - Topical composition comprises:

- (i) prostaglandin E1;
- (ii) an alkyl-2-(N,N-disubstituted amino)-alkanoate and/or (N, N-disubstituted) -alkanol alkanoate as skin penetration enhancer;
 - (iii) a polysaccharide gum or polyacrylic acid polymer;
- (iv) a 1-8C aliphatic alcohol and/or 8-30C aliphatic ester as lipophilic compound; and
 - (v) an acidic buffer.

ACTIVITY - Cardiovascular

MECHANISM OF ACTION - None given.

Searcher

Shears

308-4994

USE - For topical administration of prostaglandin E1 for prolonged treatment of e.g. peripheral vascular disease and male impotency.

ADVANTAGE - The composition gives improved prostaglandin permeation and bioavailability, reduced skin damage and related inflammation and increased flexibility in the design of dosage forms.

Dwg.0/2

L23 ANSWER 13 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1999-254289 [21] WPIDS

DOC. NO. CPI:

C1999-074318

TITLE:

Topical delivery of nitric oxide releasing

substance to skin.

DERWENT CLASS:

A96 B05

INVENTOR (S):

FOSSEL, E T; FOSSEL, E

PATENT ASSIGNEE(S):

(FOSS-I) FOSSEL E T; (STRA-N) STRATEGIC SCI &

TECHNOLOGIES INC

COUNTRY COUNT:

83

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG

WO 9913717 A1 19990325 (199921)* EN 33

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI
GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT UA UG UZ VN YU ZW

US 5895658 A 19990420 (199923)

AU 9893186 A 19990405 (199933)

US 5922332 A 19990713 (199934)

EP 1041880 A1 20001011 (200052) EN

R: AT BE CH DE DK ES FI FR GB GR IT LI NL SE

APPLICATION DETAILS:

PA'	TENT NO	KIND	APPLICATION	DATE
WO	9913717	A1	WO 1998-US19429	19980917
US	5895658	A	US 1997-936188	19970917
AU	9893186	A	AU 1998-93186	19980917
US	5922332	Α	US 1997-932595	19970917
EP	1041880	A1	EP 1998-946099	19980917
			WO 1998-US19429	19980917

FILING DETAILS:

PRIORITY APPLN. INFO: US 1997-936189 19970917; US 1997-932227 19970917; US 1997-932595 19970917; US 1997-936188 19970917

AN 1999-254289 [21] WPIDS

AB WO 9913717 A UPAB: 19990603

NOVELTY - Delivering a nitric oxide releasing substance (I) comprising L-arginine, L-arginine salts or L-arginine derivatives to an area of skin comprises topical application of a vehicle (II) containing (I) which creates an environment which causes (I) to migrate to the skin.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also include for the following:

- (1) treating impotence by topical application of (II)
 containing (I);
- (2) promoting hair growth by topical or oral application of(II) containing (I);
- (3) increasing local blood flow by oral administration of (II) containing (I) and sodium chloride and optional topical administration of (II) containing (I) and ionic salt;
- (4) warming cool or cold tissue by oral administration of (II) containing (I) and sodium chloride or topical application of (II) containing (I) and an ionic salt;
- (5) healing superficial ulcers by oral administration of (II) containing (I) and sodium chloride and
- (6) treating pain which comprises delivering (II) containing a kyotorphin releasing substance (III) comprising L-arginine, L-arginine salts or L-arginine derivatives and an ionic salt so that (III) is absorbed in conjunction with delivery of a P depleting agent comprising capsaicin or oleoresin to the skin and
- (7) a composition for increasing blood which comprises (I) and a substance delivery carrier comprising a concentration of ionic salt to create an ionic environment which causes (I) to migrate from the carrier to skin.

ACTIVITY - Anti-impotence; analgesic; hair-growth promotion; blood flow promotion.

MECHANISM OF ACTION - Nitric oxide and kyotorphin releasing.

USE - The method is useful for treating impotence and

pain, promoting hair growth, increasing local blood flow, warming

cool or cold tissue and healing superficial ulcers.

Dwg.0/0

L23 ANSWER 14 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER: 2000-095737 [08] WPIDS

CROSS REFERENCE: 1995-082011 [11]; 1999-094823 [08]

DOC. NO. CPI:

C2000-027818

TITLE:

Preparation of liposomes having a central core

compartment containing an oil-in-water emulsion for

the delivery of e.g. interferon-alpha and

prostaglandin E1.

DERWENT CLASS:

A96 B04

INVENTOR(S):

FOLDVARI, M

PATENT ASSIGNEE(S):

(PHAR-N) PHARMADERM LAB LTD

COUNTRY COUNT:

1

PATENT INFORMATION:

PATENT N	O KIND	DATE	WEEK	LA	PG
US 59938	51 A	199911	30 (200008) *	23

APPLICATION DETAILS:

PATENT NO	KIND		AP	PLICATION	DATE
US 5993851	A	CIP of Cont of Div ex	us us	1993-98102 1995-507923 1997-872068 1998-42097	19930728 19950727 19970610 19980313

PRIORITY APPLN. INFO: US 1995-507923 19950727; US 1993-98102 19930728; US 1997-872068 19970610; US 1998-42097 19980313

AN 2000-095737 [08] WPIDS

CR 1995-082011 [11]; 1999-094823 [08]

AB US 5993851 A UPAB: 20001114

NOVELTY - Preparation of liposomes having a central core compartment containing an oil-in-water emulsion comprises preparing the oil-in-water emulsion and mixing it with vesicle-forming lipids.

DETAILED DESCRIPTION - Preparation of liposomes having a central core compartment containing an oil-in-water emulsion comprises:

- (a) preparing an oil-in-water emulsion stabilized by a surfactant; and
- (b) mixing the oil-in-water emulsion with vesicle-forming lipids to form liposomes having a lipid-bilayer membrane composed of the vesicle-forming lipids and containing the oil-in-water emulsion in the central core compartment.

USE - The process is used to produce liposomes, used in the delivery of therapeutic agents, e.g. interferon- alpha or prostaglandin E1, especially for the treatment of **erectile dysfunction** and genital warts.

ADVANTAGE - The liposomes formed by the process have greater encapsulation efficiency, uniformity of encapsulation and

Searcher: Shears 308-4994

consistency than prior art, allowing them to be used in dermal applications with lesser amounts of viscosity increasing agents, or without viscosity increasing agents. Dwg.0/3

DERWENT INFORMATION LTD L23 ANSWER 15 OF 17 WPIDS COPYRIGHT 2001

ACCESSION NUMBER:

1999-325924 [27] WPIDS

CROSS REFERENCE:

1997-201990 [18]

DOC. NO. NON-CPI:

N1999-244427

DOC. NO. CPI:

C1999-096303

TITLE:

Drug reservoir for use in transdermal drug delivery

systems comprises drug formulation absorbed on

polyurethane hydrogel layer.

DERWENT CLASS:

A25 A32 A35 A60 A94 A96 B01 B07 P32 P34

INVENTOR (S):

CHEN, T; CHIANG, C; JONA, J; JOSHI, P; RAMDAS, A

PATENT ASSIGNEE(S): (CYGN-N) CYGNUS INC

COUNTRY COUNT:

PATENT INFORMATION:

PA'	TENT NO	KIND	DATE	WEEK	LA	PG
US	5902603	Α	19990511	(199927)*		15

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 5902603	A CIP of	US 1995-528105	19950914
	CIP of	US 1995-581128	19951229
		US 1996-713711	19960913

PRIORITY APPLN. INFO: US 1996-713711 19960913; US 1995-528105 19950914; US 1995-581128 19951229

AN 1999-325924 [27] WPIDS

CR 1997-201990 [18]

5902603 A UPAB: 19990714

NOVELTY - Drug reservoir for use in a transdermal drug delivery system comprising a drug formulation including at least one permeation enhancer absorbed on a layer of a polyurethane hydrogel is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are provided for:

- (1) a transdermal drug delivery system comprising a laminated
- (a) a high capacity drug reservoir of a polyurethane hydrogel containing a drug formulation including at least one permeation enhancer; and
- (b) a backing layer that is impermeable to the drug and which defines the upper surface of the system during delivery; and Searcher : Shears

- (2) preparation of a transdermal drug delivery system having a high capacity, polyurethane hydrogel drug reservoir comprising:
- (a) reacting a polyurethane with a crosslinking agent in the presence of water to form a hydrogel;
- (b) absorbing a drug formulation comprising at least one permeation **enhancer** in to the hydrogel; and
- (c) laminating a backing layer to the hydrogel that is impermeable to the drug and serves as the upper surface of the system during drug delivery.

USE - For transdermal drug delivery, particularly of steroids, including androgenic agents, for treatment of e.g. hypogonadism, hypopituitarism, Addison's disease, impotence, male infertility disorders, anemia and male hormone replacement therapy. The androgenic agents may be administered in combination with estrogenic agents for treatment of e.g. menopause and osteoporosis. The drug delivery systems may also be used for the administration of olanzapine for the treatment of psychosis, acute mania or mild anxiety state, particularly schizophrenia and schizophreniform illnesses. Drugs of many broad classes can be delivered using the systems including e.g. antiinfectives, analgesics, anorexics, antiarthritics, antiasthmatics, anticonvulsants, antidepressants, antidiabetics, antiinflammatories, antinauseants, antipsychotics, cardiovascular preparations, diuretics, cough and cold preparations and sedatives.

ADVANTAGE - The drug reservoir enables a greater quantity of drug to be loaded into the system compared with prior art devices. Greater quantities of drugs can be delivered at higher fluxes with a reduced patch size.

DESCRIPTION OF DRAWING(S) - The figure shows a laminated composite containing a hydrogel reservoir.

Composite 10

Backing layer 11

Hydrogel reservoir layer 12

Drug 12a

Rate-controlling membrane 13

Contact adhesive layer 14 Release liner 15

Dwg.1/5

L23 ANSWER 16 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1997-558090 [51] WPIDS

CROSS REFERENCE:

1991-339516 [46]; 1993-295057 [37]; 1996-039400

[04]; 1998-386936 [33]; 2000-523776 [42];

2000-601329 [51]

DOC. NO. NON-CPI:

N1997-465235

DOC. NO. CPI:

C1997-178053

TITLE:

Dosage form for treating impotence,

priapism and Peyronie's syndrome - comprises vasoactive prostaglandin and a dispersant.

Searcher

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308-4994

DERWENT CLASS:

A96 B05 P32

INVENTOR(S):

BERGGREN, R G; GALE, R M; PLACE, V A

PATENT ASSIGNEE(S):

(VIVU-N) VIVUS INC

COUNTRY COUNT:

-

PATENT INFORMATION:

PAT	CENT	NO	KIND	DATE	WEEK	LA	PG
US	5686	5093	Α	19971111	(199751)*		13

APPLICATION DETAILS:

PATENT NO	KIND		AP	PLICATION	DATE
US 5686093	A C	IP of	US	1990-514397	19900425
	D:	iv ex	US	1991-787306	19911030
	. D.	iv ex	US	1993-93545	19930719
			US	1995-486727	19950607

FILING DETAILS:

PATENT NO	KIND	PATENT NO
US 5686093	A Div ex	US 5242391
	Div ex	US 5474535

PRIORITY APPLN. INFO: US 1991-787306 19911030; US 1990-514397 19900425; US 1993-93545 19930719; US 1995-486727 19950607

AN 1997-558090 [51] WPIDS

CR 1991-339516 [46]; 1993-295057 [37]; 1996-039400 [04]; 1998-386936 [33]; 2000-523776 [42]; 2000-601329 [51]

AB US 5686093 A UPAB: 20001114

Dosage form for treating **erectile dysfunction**comprises a shaft sized to be received within the male urethra and a
composition retained within the shaft comprising a vasoactive
prostaglandin and at least one dispersant.

The composition comprises a urethral permeation
enhancer for the agent and one or more vasodilators in
addition to the vasoactive prostaglandin, preferably natural or
synthetic prostaglandins, prostaglandin E1, alprostadil,
misoprostol, enprostil, prostaglandin E2 or their analogues. The
dispersant is a material which dissolves, melts or bioerodes within
the urethra to release the agent. The dispersant is polyethylene
glycol, propylene glycol, glycerine, polyvinyl pyrrolidine,
polyvinyl alcohol, hydroxy alkyl cellulose and/or
cyclodextrin. The vasodilator is a nitrate, long or short acting
alpha -blocker, calcium blocker, ergot alkaloid, chlorpromazine,
haloperidol, yohimbine, vasoactive intestinal peptide, dopamine
Searcher: Shears 308-4994

agonist and/or opioid antagonist.

USE - The composition is used to treat **erectile dysfunction** particularly **impotence**, priapism and Peyronie's syndrome.

ADVANTAGE - When the therapeutic agent is applied as a coating on a penile insert it is configured to prevent complete insertion and to facilitate removal. The dosage form can be introduced easily into the urethra from a flexible tube, squeeze bottle, pump or aerosol spray single or multiple dose administrator.

Dwg.1/8

L23 ANSWER 17 OF 17 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1996-425205 [42] WPIDS

DOC. NO. CPI:

C1996-133951

TITLE:

New stable, uniform, water-based topical cream -

.useful in treatment of male erectile

dysfunction, female anorgasmia,

microvascular diseases and injured tissue.

DERWENT CLASS:

A96 B05

INVENTOR (S):

ALLEN, M; ALLEN, M P

PATENT ASSIGNEE(S):

(ITME-N) INT MEDICAL INNOVATIONS INC

COUNTRY COUNT:

71

PATENT INFORMATION:

PATENT-NO KIND DATE WEEK LA PG
WO 9627372 A1 19960912 (199642)* EN 21

RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

W: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN

AU 9653025 A 19960923 (199702)

NO 9704075 A 19971027 (199802)

US 5698589 A 19971216 (199805)

EP 814800 A1 19980107 (199806) EN

R: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

CZ 9702818 A3 19971217 (199807)

BR 9607974 A 19980113 (199809).

SK 9701175 A3 19980114 (199812)

HU 9801234 A2 19990128 (199912)

AU 701328 B 19990128 (199916)

JP 11501629 W 19990209 (199916) 21

KR 98702766 A 19980805 (199932)

APPLICATION DETAILS:

PATENT NO	KIND		APPLI	CATION	DATE
		Searcher	•	Shears	308-4994

WO	9627372	A1			WO	1996-US2989	19960305
AU	9653025	Α			ΑU	1996-53025	19960305
NO	9704075	Α			WO	1996-US2989	19960305
					NO	1997-4075	19970904
US	5698589	Α	CIP	of	US	1993-69409	19930601
			CIP	of	US	1995-398872	19950306
					US	1996-594304	19960130
EP	814800	A1			ΕP	1996-909577	19960305
					WO	1996-US2989	19960305
CZ	9702818	A3			WO	1996-US2989	19960305
					CZ	1997-2818	19960305
BR	9607974	Α			BR	1996-7974	19960305
					WO	1996-US2989	19960305
SK	9701175	A3			WO	1996-US2989	19960305
					SK	1997-1175	19960305
HU	9801234	A2			WO	1996-US2989	19960305
					HU	1998-1234	19960305
AU	701328	В			ΑU	1996-53025	19960305
JP	11501629	W		÷	JP	1996-527007	19960305
					WO	1996-US2989	19960305
KR	98702766	Α			WO	1996-US2989	19960305
					KR	1997-706173	19970904

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 9653025	A Based	on	WO 9627372
EP 814800	A1 Based	on	WO 9627372
CZ 9702818	A3 Based	on	WO 9627372
BR 9607974	A Based	on	WO 9627372
HU 9801234	A2 Based	on	WO 9627372
AU 701328	B Previ	ous Publ.	AU 9653025
	Based	on	WO 9627372
JP 11501629	W Based	on	WO 9627372
KR 98702766	A Based	on	WO 9627372

PRIORITY APPLN. INFO: US 1996-594304 19960130; US 1995-398872 19950306; US 1993-69409 19930601

AN 1996-425205 [42] WPIDS

AB WO 9627372 A UPAB: 19961021

A new stable, uniform, water-based topical cream comprises: (a) nitroglycerin (0.1-3% by wt.); (b) a penetration enhancer (5-24% by wt.); (c) water (60-90% by wt.); (d) a thickener (0.5-3% by wt.); and (e) an emulsifier (0.4-2% by wt.).

Also claimed is a method of prepn. of the topical cream comprising: admixing the thickener and about 80-90% of the water and heating to give a first soln.: admixing the emulsifier, about 15-85% of the penetration **enhancer** and the remainder of the

Searcher

Shears 308-4994

water, with heating, to provide a second soln.; admixing the first soln. and the second soln. to provide a cream base; and admixing the nitroglycerin, the remainder of the penetration enhancer and the cream base to obtain the topical cream.

Pref. the penetration enhancer is selected from propylene glycol, glycerine, isopropyl palmitate, isopropyl myristate, laurocapram and their mixts. The thickener is selected from methyl cellulose, polyethylene glycol, acrylic acid polymers and their mixts. The emulsifier is a nonionic surface active agent and is selected from polyethylene glycol alcohol ether, polyoxyethylene acid ester and partial ester of sorbitol or anhydride thereof and their mixts.

USE - The cream is used for treating males suffering from erectile dysfunction and females suffering from anorgasmia by topical application of an effective amt. to the genital area in males and the vaginal area in females.

The cream is also used for treating microvascular disease, partic. peripheral neuropathy, by topical application of an effective amt. to the afflicted areas of the patient and for treating wounds or surgical incisions by topical application of an effective amt. to the wound or incision.

For treatment of male **erectile dysfunction** about 0.2 to 3 g of cream is applied; for treatment of female anorgasmia about 0.1 to 1.10 g of cream is applied; for treatment of microvascular disease about 1 to 3 g of cream is applied; and for treatment of wounds and surgical incisions about 0.2 to 1 g of cream is applied.

ADVANTAGE - The creams provide fast penetration of vasoactive agents into the penis and clitoris with less discomfort and transference among sexual partners compared with previously used compsns.

Dwg.0/0

ABEQ US 5698589 A UPAB: 19980202

A new stable, uniform, water-based topical cream comprises:(a) nitroglycerin (0.1-3% by wt.); (b) a penetration **enhancer** (5-24% by wt.); (c) water (60-90% by wt.); (d) a thickener (0.5-3% by wt.); and (e) an emulsifier (0.4-2% by wt.).

Also claimed is a method of prepn. of the topical cream comprising: admixing the thickener and about 80-90% of the water and heating to give a first soln.: admixing the emulsifier, about 15-85% of the penetration enhancer and the remainder of the water, with heating, to provide a second soln.; admixing the first soln. and the second soln. to provide a cream base; and admixing the nitroglycerin, the remainder of the penetration enhancer and the cream base to obtain the topical cream.

Pref. the penetration enhancer is selected from propylene glycol, glycerine, isopropyl palmitate, isopropyl myristate, laurocapram and their mixts. The thickener is selected from methyl cellulose, polyethylene glycol, acrylic acid Searcher: Shears 308-4994

polymers and their mixts. The emulsifier is a nonionic surface active agent and is selected from polyethylene glycol alcohol ether, polyoxyethylene acid ester and partial ester of sorbitol or anhydride thereof and their mixts.

USE - The cream is used for treating males suffering from erectile dysfunction and females suffering from anorgasmia by topical application of an effective amt. to the genital area in males and the vaginal area in females.

The cream is also used for treating microvascular disease, partic. peripheral neuropathy, by topical application of an effective amt. to the afflicted areas of the patient and for treating wounds or surgical incisions by topical application of an effective amt. to the wound or incision.

For treatment of male erectile dysfunction about 0.2 to 3 g of cream is applied; for treatment of female anorgasmia about 0.1 to 1.10 g of cream is applied; for treatment of microvascular disease about 1 to 3 g of cream is applied; and for treatment of wounds and surgical incisions about 0.2 to 1 g of cream is applied.

ADVANTAGE - The creams provide fast penetration of vasoactive agents into the penis and clitoris with less discomfort and transference among sexual partners compared with previously used compsns.

Dwg.0/0

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(FILE 'MEDLINE' ENTERED AT 15:02:48 ON 29 MAR 2001)
          42388 SEA FILE=MEDLINE ABB=ON PLU=ON ETHANOL/CT
L12
            122 SEA FILE=MEDLINE ABB=ON PLU=ON
                                                2-PROPANOL/CT
L13
L14
             82 SEA FILE=MEDLINE ABB=ON PLU=ON
                                                PROPANOLS/CT
           6684 SEA FILE=MEDLINE ABB=ON PLU=ON
                                                 IMPOTENCE/CT
L17
           3045 SEA FILE=MEDLINE ABB=ON PLU=ON L17 AND (DRUG THERAPY
L24
                OR THERAPEUTIC USE OR THERAPY) / CT
              8 SEA FILE=MEDLINE ABB=ON PLU=ON (L12 OR L13 OR L14) AND
L25
                L24
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=> s 125 not 118

L26 8 L25 NOT L18

=> d 1-8 .beverlymed

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L26 ANSWER 1 OF 8 MEDLINE
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Journal code: BER. ISSN: 1051-0443.

AN 2000445695 MEDLINE

TI Embolotherapy for venous impotence: use of ethanol.

AU Nakata M; Takashima S; Kaminou T; Koda Y; Morimoto A; Hamuro M; Matsuoka T; Yasumoto R; Nakamura K; Yamada R

SO JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY, (2000 Sep) 11 (8) 1053-7.

PURPOSE: To evaluate the usefulness of embolotherapy with ethanol AB for the treatment of venous impotence. MATERIALS AND METHODS: Twenty-three patients with venous impotence underwent embolotherapy. The diagnosis of venous impotence was made by means of pharmacocavernosometry and cavernosography. After exposure of the deep dorsal penile vein, a intravenous catheter was inserted directly into the deep dorsal penile vein and advanced into just front of the preprostatic plexus. Fifty percent ethanol was injected through the catheter and the endpoint of the procedure was determined based on results of venography immediately after injection. The procedure was finished when lack of venous leakage was confirmed. RESULTS: In all patients, the deep dorsal penile vein was successfully exposed surgically, the sclerosing agent successfully injected, and the endpoint successfully achieved. Immediate clinical therapeutic effect (restoration of erection) was obtained in 20 cases (87%). No severe complications were observed during or after the procedure. The follow-up period was 6-50 months. Long-term therapeutic effect was confirmed for 18 of 23 patients (78%). CONCLUSION: The authors' findings suggest that this treatment had satisfactory short-term and long-term clinical results and that longer follow-up is necessary to confirm its safety.

- L26 ANSWER 2 OF 8 MEDLINE
- AN 1999260663 MEDLINE
- TI The impact of first-line antihypertensive drugs on erectile dysfunction.
- AU Barksdale J D; Gardner S F
- SO PHARMACOTHERAPY, (1999 May) 19 (5) 573-81. Ref: 52 Journal code: PAR. ISSN: 0277-0008.
- AB Erectile dysfunction, a problem estimated to affect up to 30 million American men, is associated with a number of systemic illnesses and drugs. Age is not thought to be an independent risk factor for the disorder, but accompanying illnesses and their treatments may contribute to its onset. Newer classes of antihypertensive agents are less frequently associated with sexual dysfunction than diuretics or beta-blockers. However, nearly every first-line antihypertensive drug has been reported to cause some degree of erectile dysfunction. Management options include lifestyle modification, dosage reduction, discontinuation of the offending agent, switching to an alternative drug, and pharmacologic therapy.
- L26 ANSWER 3 OF 8 MEDLINE
- AN 95295105 MEDLINE
- TI Incidence of penile pain after injection of a new formulation of prostaglandin El [see comments].
- AU Chen J; Godschalk M F; Katz P G; Mulligan T
- SO JOURNAL OF UROLOGY, (1995 Jul) 154 (1) 77-9. Journal code: KC7. ISSN: 0022-5347.
- AB PURPOSE: We determined the incidence of pain with injection of a new Searcher : Shears 308-4994

formulation of prostaglandin E1. MATERIALS AND METHODS: A total of 63 subjects with erectile dysfunction underwent treatment with the new formulation of prostaglandin E1. Evidence of pain associated with injection was obtained by questionnaire and through questioning. RESULTS: A total of 451 injections was given to 63 subjects in the office, with 16 episodes (3.5%) of pain in 10 (15.9%). Then, 680 injections were performed by 38 subjects at home, with 15 episodes (2.2%) of pain in 8 (21%). Pain was not dose related. CONCLUSIONS: The new formulation of prostaglandin E1 is less likely to be associated with pain compared with alcohol based formulations.

- L26 ANSWER 4 OF 8 MEDLINE
- AN 94345190 MEDLINE
- TI Embolotherapy: agents, clinical applications, and techniques.
- AU Coldwell D M; Stokes K R; Yakes W F
- SO RADIOGRAPHICS, (1994 May) 14 (3) 623-43; quiz 645-6. Ref: 75 Journal code: RDG. ISSN: 0271-5333.
- For embolization to be successful, three factors must be addressed: AB embolic agent selection, clinical application, and technical skill. The major embolic agents used include stainless steel coils, absorbable gelatin pledgets and powder, polyvinyl alcohol foam, ethanol, and glues. Each of these agents acts at different levels in the arterial system; for example, coils are equivalent to surgical ligation and occlude medium to small arteries, whereas liquid agents and the smaller diameter particles occlude at the arteriolar level or the capillary bed. The type of agent selected should also be determined according to clinical application, which includes trauma, tumors, male infertility, impotence, and vascular malformations. It may be better to occlude an artery only temporarily, particularly in trauma patients, and absorbable gelatin material is preferred for this application. Conversely, permanent occlusion of arteries with either ethanol or polyvinyl alcohol foam particles may be necessary in the treatment of tumors. To use embolotherapy effectively, the interventional radiologist must be experienced, familiar with the underlying pathologic processes, and knowledgeable with regard to the role of other specialties in the treatment of the disease process presented.
- L26 ANSWER 5 OF 8 MEDLINE
- AN 83128823 MEDLINE
- TI Erectile impotence: a clinical challenge.
- AU McKendry J B; Collins W E; Silverman M; Krul L E; Collins J P; Irvine A H
- SO CANADIAN MEDICAL ASSOCIATION JOURNAL, (1983 Mar 15) 128 (6) 653-63. Ref: 129
 - Journal code: CKW. ISSN: 0008-4409.
- L26 ANSWER 6 OF 8 MEDLINE

AN 81080611 MEDLINE

TI Sexual impotency: current knowledge and treatment I. Urology/sexuality clinic.

AU Finkle A L

SO UROLOGY, (1980 Nov) 16 (5) 449-52. Ref: 26 Journal code: WSY. ISSN: 0090-4295.

Investigative and therapeutic measures for evaluating sexual AB impotency are rather recent. Psychogenic and organic problems may overlap. Thorough clinical appraisal and objective tests are currently affording better differentiation of etiology and, consequently, appropriate treatment. Causes of and tests for sexual impotency guide the choice of treatment. Surgical intervention can be offered for irreversible organic impotency. However, most instances of acquired impotence are psychogenic. Any nonjudgmental, competent practitioner can aid victims of psychogenic impotence by a "listening and encouragement" method. Urologists, in particular, are commonly confronted with genital/sexual problems and may be best suited as primary therapists by developing interest in urologic counseling. A newly formed Urology/Sexuality Clinic at the University of California in San Francisco provides therapy for patients and offers training for resident physicians.

L26 ANSWER 7 OF 8 MEDLINE

AN 76099804 MEDLINE

TI Drugs and sexual behavior in man.

AU Hollister L E

SO LIFE SCIENCES, (1975 Sep 1) 17 (5) 661-7. Ref: 28 Journal code: L62. ISSN: 0024-3205.

L26 ANSWER 8 OF 8 MEDLINE

AN 75138750 MEDLINE

TI Intrathecal alcohol block--experiences on 41 cases.

AU Bruno G

SO PARAPLEGIA, (1975 Feb) 12 (4) 305-6. Journal code: OQT. ISSN: 0031-1758.

=> fil hom

FILE 'HOME' ENTERED AT 15:04:58 ON 29 MAR 2001